



2.00mm (.079") Pitch Milli-Grid™ Introduction

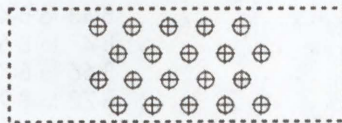
Molex's Milli-Grid family of high density connectors is based on a 2.00 x 2.00mm grid pattern. The system offers complete design flexibility for wire-to-board, board-to-board and cable-to-board connections in PC, consumer, telecom and other electronic industries.

Compared to traditional 2.54mm (.100") pitch connectors, Milli-Grid connectors offer up to 40% savings in PCB real estate.

The Milli-Grid family includes crimp terminals, housings, headers and receptacles. The crimp terminals feature an early entry design that provides longer wiping action for more reliable contact. The receptacles boast a choice of mating styles in top, side and bottom entry in PCB, IDT and FPC versions. Headers are available in both shrouded and unshrouded styles.

2.00 to 2.50mm (.079 to .098") Pitch

THE 2.00mm ADVANTAGE



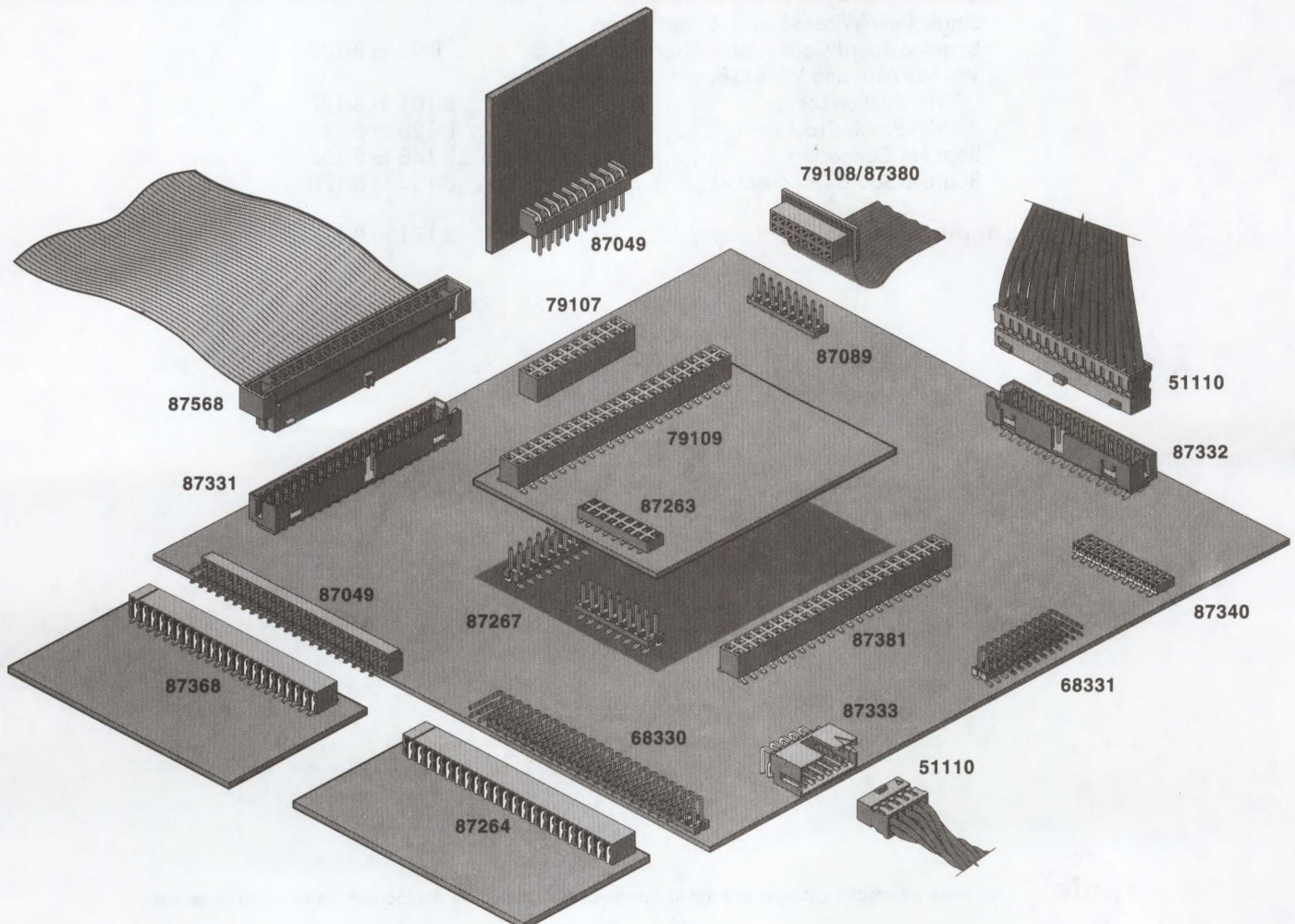
(Milli-Grid vs. 2.54 and 1.27mm Pitch)
20-Circuit PCB Usage Comparison

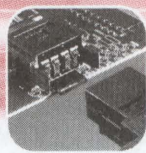
Milli-Grid = 80mm²

2.54mm Pitch = 125mm²

1.27mm Pitch = 185mm²

APPLICATION OVERVIEW



**B**

2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

2.00mm (.079") Pitch Connectors

Dual Row Wire-to-Board, Flex-to-Board and Board-to-Board Connectors—Milli-Grid™	B-2 to B-24
Single/Dual Row Multi-Harness Wire-to-Wire and Wire-to-Board Connectors—Mi II™	B-25 to B-42
Wire-to-Wire Connectors	B-43 to B-46
Wire-to-Board Connectors	B-47 to B-65
Board-In Connectors	B-66 to B-72
Board-to-Board Connectors	B-73 to B-90

2.20mm (.086") Pitch Panel Detachable

Board-to-Board Connectors	B-91 to B-92
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2.50mm (.098") Pitch Connectors

Single Row Wire-to-Board, Board-In and Board-to-Board Connectors—User Friendly	B-93 to B-100
Wire-to-Wire and Wire-to-Board Connectors	
With Friction Locks	B-101 to B-127
With Positive Locks	B-128 to B-147
Board-In Connectors	B-148 to B-153
Board-to-Board Connectors	B-154 to B-170

Application Tooling	B-171 to B-178
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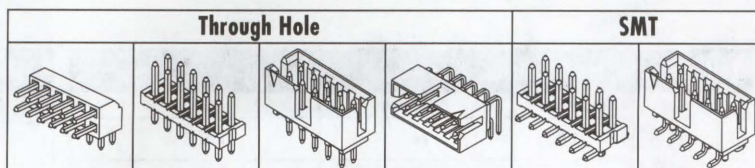
For more information, please see the last page of the catalog for the location nearest you or contact:

Board-to-Board System

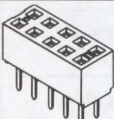
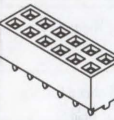
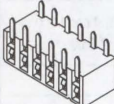
molex® Milli-Grid™ 2.00mm (.079")
Pitch Interconnection System

B

2.00 to 2.50mm (.079 to .098") Pitch



Series / Description					
87049 Right Angle	87089 Vertical	87331 Vertical	87333 Right Angle	87267 Vertical	87332 Vertical

	Series	Description	Contact Point	Overall Height	Circuits	Right Angle	Vertical	Vertical	Right Angle	Vertical	Vertical
Through Hole											
	79107	Top Entry	1.50 (.059)	4.44 (.175)	4 to 50	8.44 (.332)	5.94 (.234)	6.94 (.273)	6.94 (.273)	7.14 (.281)	8.14 (.320)
	79108	FFC/FPC Top Entry									
	87380	FFC/FPC Top Entry	0.90 (.035)	4.00 (.157)	6 to 50	8.00 (.314)	5.50 (.216)	6.50 (.256)	6.50 (.256)	6.70 (.264)	7.70 (.303)
	87264	Side Entry	1.50 (.059)	4.00 (.157) by 5.00 (.197)	8 to 50	9.00 (.354)	6.50 (.256)			7.70 (.303)	

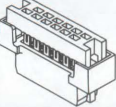
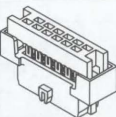
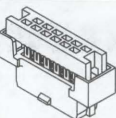
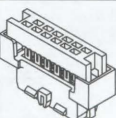
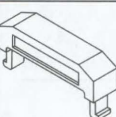
SMT											
	79109	Top/Bottom Entry	1.50 (.059)	4.65 (.183)	4 to 50	8.65 (.341)	6.15 (.242)	7.15 (.281)	7.15 (.281)	7.35 (.289)	8.35 (.329)
	87263	Bottom Entry	1.30 (.051)	2.80 (.110)	4 to 44	8.38 (.330)	5.88 (.231)			7.08 (.279)	
	87340	Top Entry	0.90 (.035)	2.15 (.085)	4 to 20	6.15 (.242)	3.65 (.144)			4.85 (.191)	
	87381	Top Entry	1.70 (.067)	4.50 (.177)	6 to 50	8.50 (.335)	6.00 (.236)	7.00 (.276)	7.00 (.276)	7.20 (.283)	8.20 (.323)
	87368	Side Entry	1.50 (.059)	4.90 (.193) by 5.00 (.197)	8 to 50	9.00 (.354)	6.50 (.256)			7.70 (.303)	

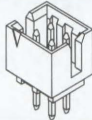
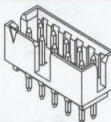
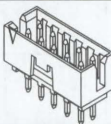
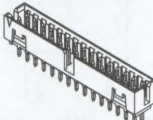
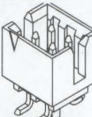
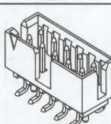
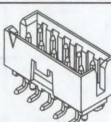
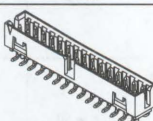
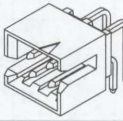
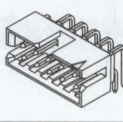
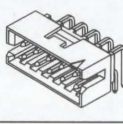
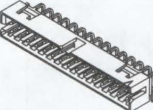
Unshrouded Headers					
	Order No.	Circuits	Features	Mating Length	Tail Length
	87089-XX16	4 to 50	15μ" Gold	4.00 (.158)	2.60 (.102)
	87089-XX17		30μ" Gold		
	87267-XX50	8 to 50	With Pegs 15μ" Gold	3.80 (.150)	1.20 (.047)
	87267-XX51		With Pegs 30μ" Gold		
	87267-XX14	4 to 50	Without Pegs 15μ" Gold		
	87267-XX15		Without Pegs 30μ" Gold		
	87049-XX16	4 to 50	15μ" Gold	4.00 (.158)	2.60 (.102)
	87049-XX17		30μ" Gold		

Wire-to-Board System

Early Entry System Terminals			
	Order No.	Packaging	Plating
	50394-8053	Reel	Gold Flash
	50394-8300	Bag	Gold Flash
	50394-8051	Reel	15µ" min. Select Gold
	50394-8100	Bag	15µ" min. Select Gold
	50394-8052	Reel	30µ" min. Select Gold
	50394-8200	Bag	30µ" min. Select Gold

Crimp Housings			
	Order No.	Circuits	Features
	51110-XX50	4 to 34	Plain
	51110-XX51	8 to 12	Center Polarization Key 
	51110-XX60	4 to 12	Center Polarization Ramp 
	51110-XX51	14 to 34	Locking Ramp and Polarization Key 

IDT Housings and Strain Relief			
	87568-XX61	10, 12, 14, 16, 20, 22, 24, 26, 30, 34, 40, 44 and 50	Plain Front 15µ" Gold
	87568-XX62		Plain Front 30µ" Gold
	87568-XX41	14, 16, 20, 22, 24, 26, 30, 34, 40, 44 and 50	Center Polarization Ramp 30µ" Gold
	87568-XX42		Center Polarization Ramp 15µ" Gold
	87568-XX71	10 and 12	Center Locking Ramp 15µ" Gold
	87568-XX72		Center Locking Ramp 30µ" Gold
	87568-XX91	14, 16, 20, 22, 24, 26, 30, 34, 40, 44 and 50	Locking Ramp and Polarization Key 15µ" Gold
	87568-XX92		Locking Ramp and Polarization Key 30µ" Gold
	87569-10XX	10, 12, 14, 16, 20, 22, 24, 26, 30, 34, 40, 44 and 50	Strain Relief

Shrouded Headers			
Through Hole	Order No.	Circuits	Features
	87331-XX20	4 to 6	Plain 15μ" Gold
	87331-XX21		Plain 30μ" Gold
	87331-XX20	8 to 12	Center Polarization Slot 15μ" Gold
	87331-XX21		Center Polarization Slot 30μ" Gold
	87331-XX41	4 to 12	Center Locking Window 15μ" Gold
	87331-XX42		Center Locking Window 30μ" Gold
	87331-XX20	14 to 50	Center Polarization Slot and Locking Window 15μ" Gold
	87331-XX21		Center Polarization Slot and Locking Window 30μ" Gold
SMT			
	87332-XX20	4 to 6	Plain 15μ" Gold
	87332-XX21		Plain 30μ" Gold
	87332-XX20	8 to 12	Center Polarization Slot 15μ" Gold
	87332-XX21		Center Polarization Slot 30μ" Gold
	87332-XX10	4 to 12	Center Locking Window 15μ" Gold
	87332-XX11		Center Locking Window 30μ" Gold
	87332-XX20	14 to 50	Center Polarization Slot and Locking Window 15μ" Gold
	87332-XX21		Center Polarization Slot and Locking Window 30μ" Gold
Right Angle			
	87333-XX20	4 to 6	Plain 15μ" Gold
	87333-XX21		Plain 30μ" Gold
	87333-XX20	8 to 12	Center Polarization Slot 15μ" Gold
	87333-XX21		Center Polarization Slot 30μ" Gold
	87333-XX31	4 to 12	Center Locking Window 15μ" Gold
	87333-XX32		Center Locking Window 30μ" Gold
	87333-XX20	14 to 50	Center Polarization Slot and Locking Window 15μ" Gold
	87333-XX21		Center Polarization Slot and Locking Window 30μ" Gold

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 34 circuits
- Front latches for added retention forces after mating
- Options include center polarization key and front latches version (14 to 34 circuits only), center polarization key only (8 to 12 circuits)

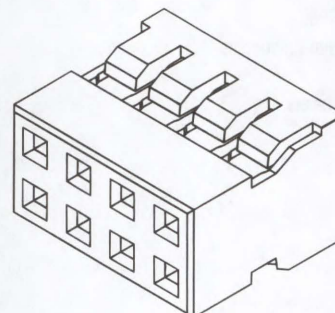
Physical

Housing: Black glass-filled polyester, UL 94V-0
Operating Temperature: -55 to +105°C



2.00mm (.079") Pitch Milli-Grid™ Crimp Housing

51110



Reference Information

Product Specification: PS-51110

Packaging: Bag

UL File No.: E29179

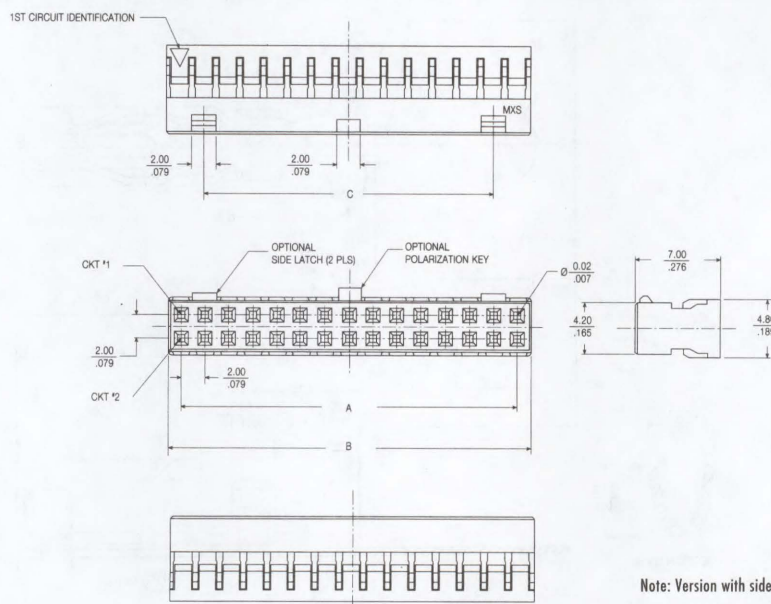
CSA File No.: LR19980

Mates With: 87331, 87332, 87333, 87089, 87267 and 87049

Use With: 50394

Designed In: Millimeters

CATALOG DRAWING (FOR REFERENCE ONLY)



Note: Version with side latches and polarization key shown.

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension		
	Plain	With Polarization Keys	A	B	C
4	51110-0450	51110-0460	2.00 (.079)	4.20 (.165)	
6	51110-0650	51110-0660	4.00 (.157)	6.20 (.244)	
8	51110-0850	51110-0860	6.00 (.236)	8.20 (.323)	
10	51110-1050	51110-1060	8.00 (.315)	10.20 (.402)	
12	51110-1250	51110-1260	10.00 (.394)	12.20 (.480)	
14	51110-1450	51110-1451	12.00 (.472)	14.20 (.559)	8.00 (.315)
16	51110-1650	51110-1651	14.00 (.551)	16.20 (.638)	10.00 (.394)
18	51110-1850	51110-1851	16.00 (.630)	18.20 (.717)	12.00 (.472)
20	51110-2050	51110-2051	18.00 (.708)	20.20 (.795)	14.00 (.551)
22	51110-2250	51110-2251	20.00 (.787)	22.20 (.874)	16.00 (.630)
24	51110-2450	51110-2451	22.00 (.866)	24.20 (.953)	18.00 (.709)
26	51110-2650	51110-2651	24.00 (.945)	26.20 (1.031)	20.00 (.787)
28	51110-2850	51110-2851	26.00 (1.024)	28.20 (1.110)	22.00 (.866)
30	51110-3050	51110-3051	28.00 (1.102)	30.20 (1.189)	24.00 (.945)
32	51110-3250	51110-3251	30.00 (1.181)	32.20 (1.268)	26.00 (1.024)
34	51110-3450	51110-3451	32.00 (1.260)	34.20 (1.346)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Ideal for dense packaging flex-to-board interconnection applications
- IR, vapor-phase and wave solder Surface Mount Compatible
- Dual beam contact design ensures reliable electrical performance
- Molded-in void locations offered for polarization to mating connector
- PC tails have tapered lead-in on for ease of insertion into FFC/FPC

Reference Information

Product Specification: PS-79107

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 0.50mm square pin headers 87049, 87089 and 87267

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.0A

Contact Resistance: 25mΩ max.

Dielectric Withstanding Voltage: 1250V

Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 8 oz max.

Unmating Force: 1.5 oz min.

Normal Force: 100g

Durability: 15μ" Gold contacts—50 cycles min.

30μ" Gold contacts—100 cycles min.

Physical

Housing: Black glass-filled LCP, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

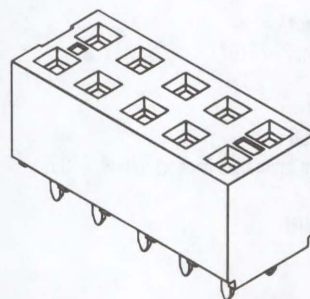
Operating Temperature: -55 to +105°C



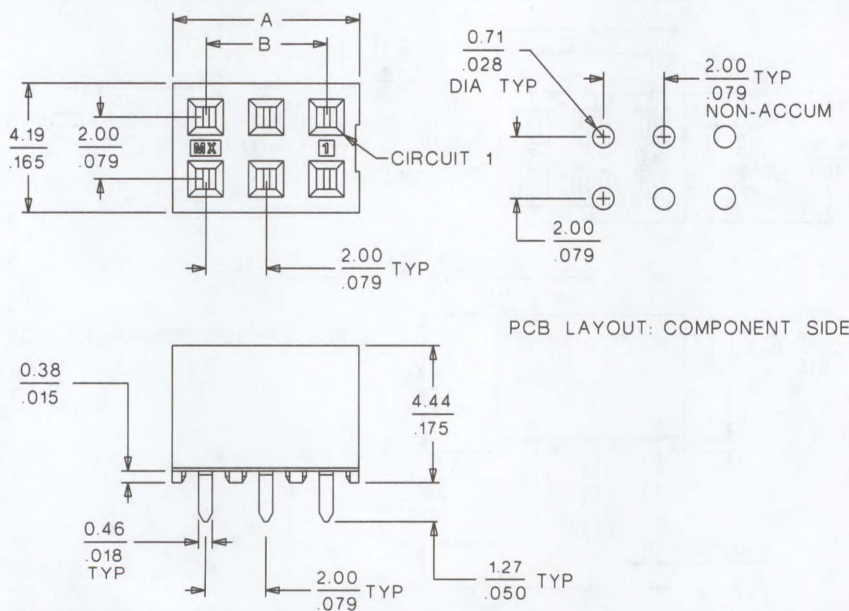
2.00mm (.079") Pitch
Milli-Grid™
Flex-to-Board
Receptacle

79108

Vertical, Dual Row
FFC/FPC Through Hole



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Plating No. 1	Plating No. 2	A	B
4	• 79108-0001	• 79108-0051	4.19 (.165)	2.00 (.079)
6	• 79108-0002	• 79108-0052	6.19 (.244)	4.00 (.157)
8	• 79108-0003	• 79108-0053	8.19 (.322)	6.00 (.236)
10	• 79108-0004	• 79108-0054	10.19 (.401)	8.00 (.315)
12	• 79108-0005	• 79108-0055	12.19 (.480)	10.00 (.394)
14	• 79108-0006	• 79108-0056	14.19 (.559)	12.00 (.472)
16	• 79108-0007	• 79108-0057	16.19 (.637)	14.00 (.551)
18	• 79108-0008	• 79108-0058	18.19 (.716)	16.00 (.630)
20	• 79108-0009	• 79108-0059	20.19 (.795)	18.00 (.709)
22	• 79108-0010	• 79108-0060	22.19 (.874)	20.00 (.787)
24	• 79108-0011	• 79108-0061	24.19 (.952)	22.00 (.866)
26	• 79108-0012	• 79108-0062	26.19 (1.031)	24.00 (.945)

Circuits	Order No.		Dimension	
	Plating No. 1	Plating No. 2	A	B
28	• 79108-0013	• 79108-0063	28.19 (1.110)	26.00 (1.024)
30	• 79108-0014	• 79108-0064	30.19 (1.188)	28.00 (1.102)
32	• 79108-0015	• 79108-0065	32.19 (1.267)	30.00 (1.181)
34	• 79108-0016	• 79108-0066	34.19 (1.346)	32.00 (1.260)
36	• 79108-0017	• 79108-0067	36.19 (1.425)	34.00 (1.338)
38	• 79108-0018	• 79108-0068	38.19 (1.504)	36.00 (1.417)
40	• 79108-0019	• 79108-0069	40.19 (1.582)	38.00 (1.496)
42	• 79108-0020	• 79108-0070	42.19 (1.661)	40.00 (1.575)
44	• 79108-0021	• 79108-0071	44.19 (1.740)	42.00 (1.654)
46	• 79108-0022	• 79108-0072	46.19 (1.818)	44.00 (1.732)
48	• 79108-0023	• 79108-0073	48.19 (1.897)	46.00 (1.811)
50	• 79108-0024	• 79108-0074	50.19 (1.976)	48.00 (1.890)

• US Standard Product, available through Molex franchised distributors

Plating No. 1: 15μ" min. Gold plate in selected area and 75μ" min. Tin/Lead in selected area, over Nickel overall

Plating No. 2: 30μ" min. Gold plate in selected area and 75μ" min. Tin/Lead in selected area, over Nickel overall

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- IR, vapor-phase and wave solder Surface Mount Compatible
- Dual beam contact design ensures reliable electrical performance
- Molded-in void locations offered for polarization to mating connector
- PC tails have tapered lead-in on for ease of insertion into the PC board
- Also available with shortened 1.91mm (.075") tail length for 0.79mm (.031") thick PC boards

Reference Information

Product Specification: PS-79107

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 0.50mm square pin headers 87049, 87089 and 87267

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.0A

Contact Resistance: 25mΩ max.

Dielectric Withstanding Voltage: 1250V

Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 8 oz max.

Unmating Force: 1.5 oz min.

Normal Force: 100g

Durability: 15μ" Gold contacts—50 cycles min.

30μ" Gold contacts—100 cycles min.

Physical

Housing: Black glass-filled LCP, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

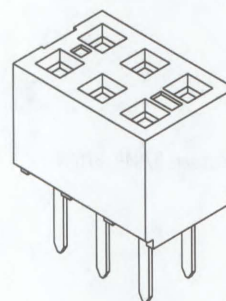
Operating Temperature: -55 to +105°C



2.00mm (.079") Pitch Milli-Grid™ Board-to-Board Receptacle

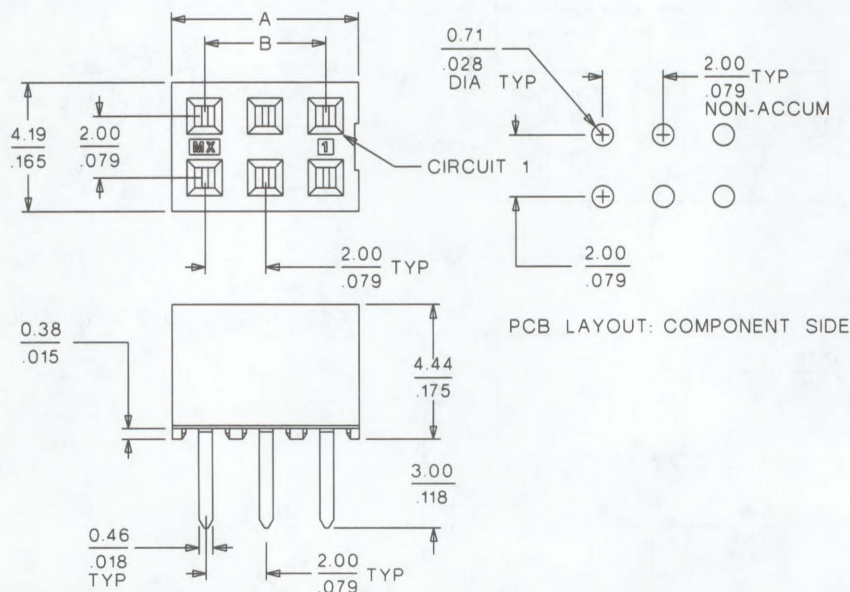
79107

Vertical, Dual Row Through Hole



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Plating No. 1	Plating No. 2	A	B
4	• 79107-0001	• 79107-0051	4.19 (.165)	2.00 (.079)
6	• 79107-0002	• 79107-0052	6.19 (.244)	4.00 (.157)
8	• 79107-0003	• 79107-0053	8.19 (.322)	6.00 (.236)
10	• 79107-0004	• 79107-0054	10.19 (.401)	8.00 (.315)
12	• 79107-0005	• 79107-0055	12.19 (.480)	10.00 (.394)
14	• 79107-0006	• 79107-0056	14.19 (.559)	12.00 (.472)
16	• 79107-0007	• 79107-0057	16.19 (.637)	14.00 (.551)
18	• 79107-0008	• 79107-0058	18.19 (.716)	16.00 (.630)
20	• 79107-0009	• 79107-0059	20.19 (.795)	18.00 (.709)
22	• 79107-0010	• 79107-0060	22.19 (.874)	20.00 (.787)
24	• 79107-0011	• 79107-0061	24.19 (.952)	22.00 (.866)
26	• 79107-0012	• 79107-0062	26.19 (1.031)	24.00 (.945)

Circuits	Order No.		Dimension	
	Plating No. 1	Plating No. 2	A	B
28	• 79107-0013	• 79107-0063	28.19 (1.110)	26.00 (1.024)
30	• 79107-0014	• 79107-0064	30.19 (1.188)	28.00 (1.102)
32	• 79107-0015	• 79107-0065	32.19 (1.267)	30.00 (1.181)
34	• 79107-0016	• 79107-0066	34.19 (1.346)	32.00 (1.260)
36	• 79107-0017	• 79107-0067	36.19 (1.425)	34.00 (1.338)
38	• 79107-0018	• 79107-0068	38.19 (1.504)	36.00 (1.417)
40	• 79107-0019	• 79107-0069	40.19 (1.582)	38.00 (1.496)
42	• 79107-0020	• 79107-0070	42.19 (1.661)	40.00 (1.575)
44	• 79107-0021	• 79107-0071	44.19 (1.740)	42.00 (1.654)
46	• 79107-0022	• 79107-0072	46.19 (1.818)	44.00 (1.732)
48	• 79107-0023	• 79107-0073	48.19 (1.897)	46.00 (1.811)
50	• 79107-0024	• 79107-0074	50.19 (1.976)	48.00 (1.890)

• US Standard Product, available through Molex franchised distributors

Plating No. 1: 15μ" min. Gold plate in selected area and 75μ" min. Tin/Lead in selected area, over Nickel overall

Plating No. 2: 30μ" min. Gold plate in selected area and 75μ" min. Tin/Lead in selected area, over Nickel overall

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Dual beam contact design ensures reliable electrical performance
- Molded-in void locations offered for polarization to mating connector
- Can be used as either top or bottom entry receptacle

Reference Information

Product Specification: PS-79107
 Packaging: Tube or tape and reel
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 0.50mm square pin headers 87049, 87089 and 87267
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 1.0A
 Contact Resistance: 25mΩ max.
 Dielectric Withstanding Voltage: 1250V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 2.22N (.50 lb) max.
 Unmating Force: 0.42N (.09 lb) min.
 Normal Force: 0.98N (.22 lb)
 Durability: 15μ" Gold contacts—50 cycles min.
 30μ" Gold contacts—100 cycles min.

Physical

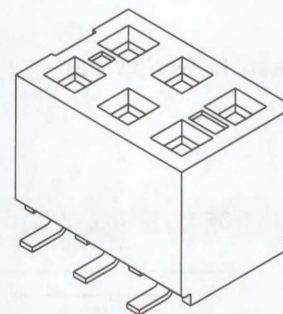
Housing: Black glass-filled LCP, UL 94V-0
 Contact: Phosphor Bronze
 Plating: See Table
 Operating Temperature: -55 to +105°C



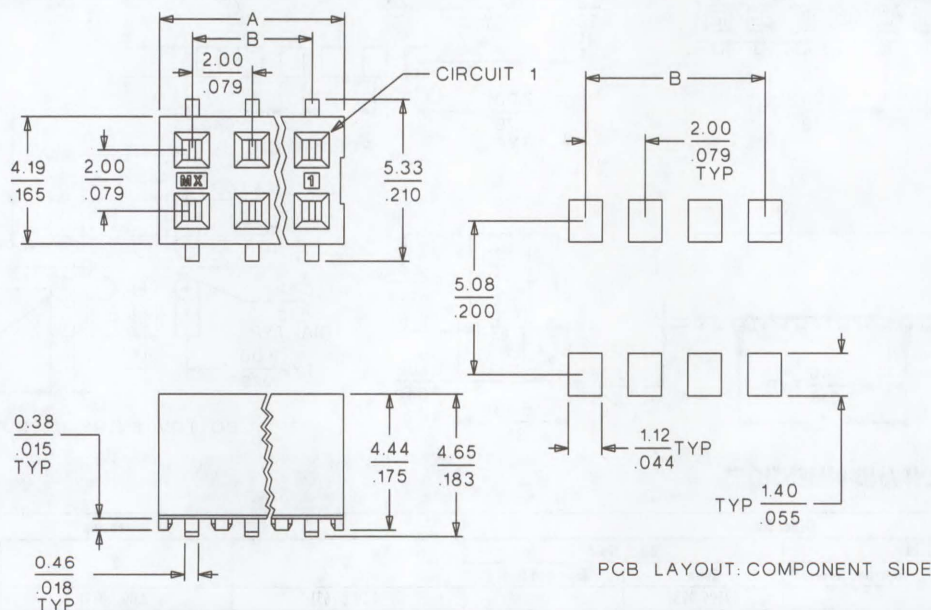
2.00mm (.079") Pitch Milli-Grid™ Board-to-Board Receptacle

79109

Vertical, Dual Row Top/Bottom Entry, SMT Without Pegs



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.				Dimension	
	15μ" Gold		30μ" Gold		A	B
	Tube	Tape and Reel	Tube	Tape and Reel		
4	79109-0001	*	79109-0051	*	4.19 (.165)	2.00 (.079)
6	79109-0002	79109-8002	79109-0052	79109-8052	6.19 (.244)	4.00 (.157)
8	79109-0003	79109-8003	79109-0053	79109-8053	8.19 (.322)	6.00 (.236)
10	79109-0004	79109-8004	79109-0054	79109-8054	10.19 (.401)	8.00 (.315)
12	79109-0005	79109-8005	79109-0055	79109-8055	12.19 (.480)	10.00 (.394)
14	79109-0006	79109-8006	79109-0056	79109-8056	14.19 (.559)	12.00 (.472)
16	79109-0007	79109-8007	79109-0057	79109-8057	16.19 (.637)	14.00 (.551)
18	79109-0008	79109-8008	79109-0058	79109-8058	18.19 (.716)	16.00 (.630)
20	79109-0009	79109-8009	79109-0059	79109-8059	20.19 (.795)	18.00 (.709)
22	79109-0010	79109-8010	79109-0060	79109-8060	22.19 (.874)	20.00 (.787)
24	79109-0011	79109-8011	79109-0061	79109-8061	24.19 (.952)	22.00 (.866)
26	79109-0012	79109-8012	79109-0062	79109-8062	26.19 (1.031)	24.00 (.945)

Circuits	Order No.				Dimension	
	15μ" Gold		30μ" Gold		A	B
	Tube	Tape and Reel	Tube	Tape and Reel		
28	79109-0013	79109-8013	79109-0063	79109-8063	28.19 (1.110)	26.00 (1.024)
30	79109-0014	79109-8014	79109-0064	79109-8064	30.19 (1.188)	28.00 (1.102)
32	79109-0015	79109-8015	79109-0065	79109-8065	32.19 (1.267)	30.00 (1.181)
34	79109-0016	79109-8016	79109-0066	79109-8066	34.19 (1.346)	32.00 (1.260)
36	79109-0017	79109-8017	79109-0067	79109-8067	36.19 (1.425)	34.00 (1.338)
38	79109-0018	79109-8018	79109-0068	79109-8068	38.19 (1.504)	36.00 (1.417)
40	79109-0019	79109-8019	79109-0069	79109-8069	40.19 (1.582)	38.00 (1.496)
42	79109-0020	79109-8020	79109-0070	79109-8070	42.19 (1.661)	40.00 (1.575)
44	79109-0021	79109-8021	79109-0071	79109-8071	44.19 (1.740)	42.00 (1.654)
46	79109-0022	79109-8022	79109-0072	79109-8072	46.19 (1.818)	44.00 (1.732)
48	79109-0023	79109-8023	79109-0073	79109-8073	48.19 (1.897)	46.00 (1.811)
50	79109-0024	79109-8024	79109-0074	79109-8074	50.19 (1.976)	48.00 (1.890)

* Contact Molex

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Dual beam contact design ensures reliable electrical performance
- Molded-in void locations offered for polarization to mating connector
- Can be used as either a top or bottom entry receptacle
- Pegs offer press-fit retention to PC board

Reference Information

Product Specification: PS-79107

Packaging: Tube or tape and reel

UL File No.: E29179

CSA File No.: LR19980

Mates With: 0.50mm square pin headers 87049, 87089 and 87267

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.0A

Contact Resistance: 25mΩ max.

Dielectric Withstanding Voltage: 1250V

Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 8 oz max.

Unmating Force: 1.5 oz min.

Normal Force: 100g

Durability: 15μ" Gold contacts—50 cycles min.

30μ" Gold contacts—100 cycles min.

Physical

Housing: Black glass-filled LCP, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

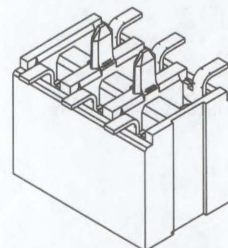
Operating Temperature: -55 to +105°C



2.00mm (.079") Pitch Milli-Grid™ Board-to-Board Receptacle

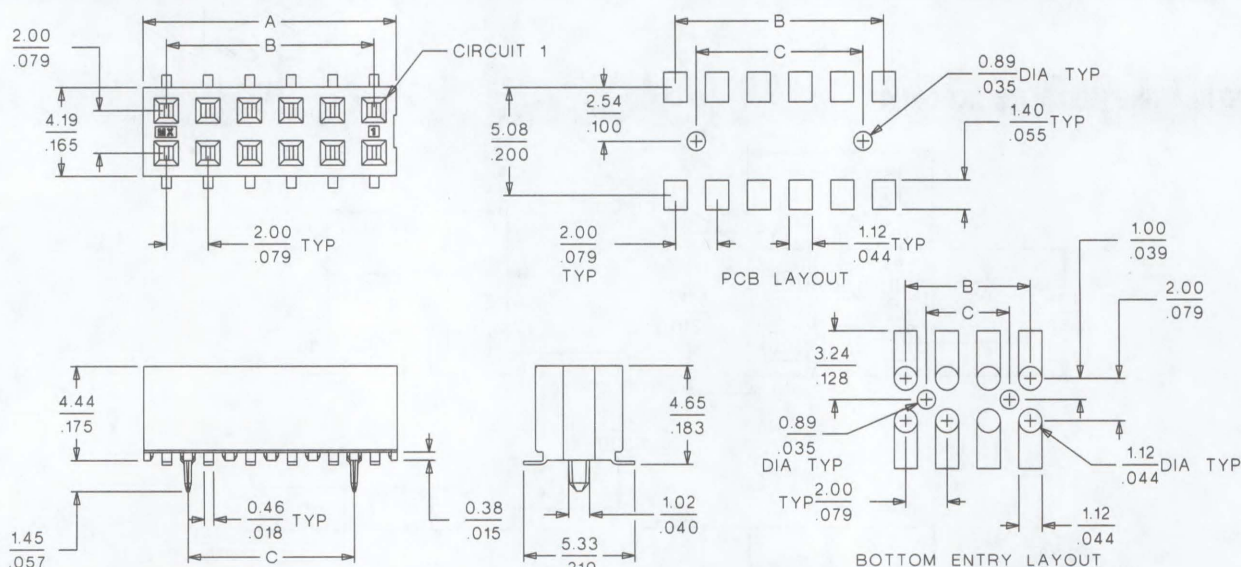
79109

Vertical, Dual Row, Top/ Bottom Entry, SMT, with Pegs



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.				Dimension		
	15μ" Gold		30μ" Gold		A	B	C
	Tube	Tape and Reel	Tube	Tape and Reel			
4	79109-0201	*	79109-0251	*	4.19 (.165)	2.00 (.079)	
6	79109-0202	79109-8202	79109-0252	79109-8252	6.19 (.244)	4.00 (.157)	2.00 (.079)
8	79109-0203	79109-8203	79109-0253	79109-8253	8.19 (.322)	6.00 (.236)	4.00 (.157)
10	79109-0204	79109-8204	79109-0254	79109-8254	10.19 (.401)	8.00 (.315)	6.00 (.236)
12	79109-0205	79109-8205	79109-0255	79109-8255	12.19 (.480)	10.00 (.394)	8.00 (.315)
14	79109-0206	79109-8206	79109-0256	79109-8256	14.19 (.559)	12.00 (.472)	10.00 (.394)
16	79109-0207	79109-8207	79109-0257	79109-8257	16.19 (.637)	14.00 (.551)	12.00 (.472)
18	79109-0208	79109-8208	79109-0258	79109-8258	18.19 (.716)	16.00 (.630)	14.00 (.551)
20	79109-0209	79109-8209	79109-0259	79109-8259	20.19 (.795)	18.00 (.709)	16.00 (.630)
22	79109-0210	79109-8210	79109-0260	79109-8260	22.19 (.874)	20.00 (.787)	18.00 (.709)
24	79109-0211	79109-8211	79109-0261	79109-8261	24.19 (.952)	22.00 (.866)	20.00 (.787)
26	79109-0212	79109-8212	79109-0262	79109-8262	26.19 (1.031)	24.00 (.945)	22.00 (.866)
28	79109-0213	79109-8213	79109-0263	79109-8263	28.19 (1.110)	26.00 (1.024)	24.00 (.945)
30	79109-0214	79109-8214	79109-0264	79109-8264	30.19 (1.188)	28.00 (1.102)	26.00 (1.024)
32	79109-0215	79109-8215	79109-0265	79109-8265	32.19 (1.267)	30.00 (1.181)	28.00 (1.102)
34	79109-0216	79109-8216	79109-0266	79109-8266	34.19 (1.346)	32.00 (1.260)	30.00 (1.181)
36	79109-0217	79109-8217	79109-0267	79109-8267	36.19 (1.425)	34.00 (1.338)	32.00 (1.260)
38	79109-0218	79109-8218	79109-0268	79109-8268	38.19 (1.504)	36.00 (1.417)	34.00 (1.338)
40	79109-0219	79109-8219	79109-0269	79109-8269	40.19 (1.582)	38.00 (1.496)	36.00 (1.417)
42	79109-0220	79109-8220	79109-0270	79109-8270	42.19 (1.661)	40.00 (1.575)	38.00 (1.496)
44	79109-0221	79109-8221	79109-0271	79109-8271	44.19 (1.740)	42.00 (1.654)	40.00 (1.575)
46	79109-0222	79109-8222	79109-0272	79109-8272	46.19 (1.818)	44.00 (1.732)	42.00 (1.654)
48	79109-0223	79109-8223	79109-0273	79109-8273	48.19 (1.897)	46.00 (1.811)	44.00 (1.732)
50	79109-0224	79109-8224	79109-0274	79109-8274	50.19 (1.976)	48.00 (1.890)	46.00 (1.811)

* Contact Molex

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 8 to 50 circuits
- Surface Mount Compatible

Reference Information

Product Specification: PS-87264
 Packaging: Tube
 UL File No.: E29179
 CSA File No.: LR19980-182
 Mates With: 0.50mm square pin headers
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 1.0A
 Contact Resistance: 15mΩ max.
 Dielectric Withstanding Voltage: 500V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 180g max.
 Normal Force: 50g min.

Physical

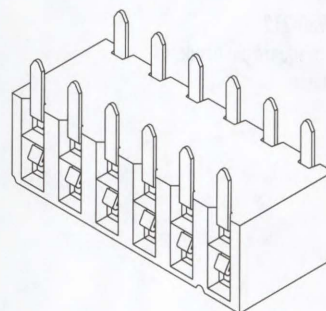
Housing: Black high-temperature nylon, UL 94V-0
 Contact: Phosphor Bronze
 Plating: See Table
 Operating Temperature: -55 to +105°C
 PCB Thickness: 1.60 ± 0.10mm



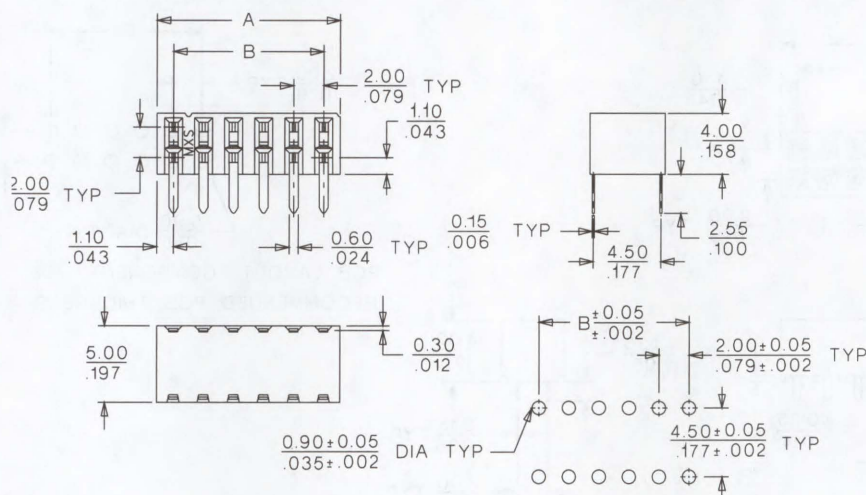
2.00mm (.079") Pitch
Milli-Grid™
Receptacle

87264

Side Entry



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: 1.60 ± 0.10
 .063 ± .004

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
8	87264-0850	87264-0851	8.20 (.323)	6.00 (.236)
10	87264-1050	87264-1051	10.20 (.402)	8.00 (.315)
12	87264-1250	87264-1251	12.20 (.480)	10.00 (.394)
14	87264-1450	87264-1451	14.20 (.559)	12.00 (.472)
16	87264-1650	87264-1651	16.20 (.638)	14.00 (.551)
18	87264-1850	87264-1851	18.20 (.717)	16.00 (.630)
20	87264-2050	87264-2051	20.20 (.795)	18.00 (.709)
22	87264-2250	87264-2251	22.20 (.874)	20.00 (.787)
24	87264-2450	87264-2451	24.20 (.953)	22.00 (.866)
26	87264-2650	87264-2651	26.20 (1.031)	24.00 (.945)
28	87264-2850	87264-2851	28.20 (1.110)	26.00 (1.024)

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
30	87264-3050	87264-3051	30.20 (1.189)	28.00 (1.102)
32	87264-3250	87264-3251	32.20 (1.268)	30.00 (1.181)
34	87264-3450	87264-3451	34.20 (1.346)	32.00 (1.260)
36	87264-3650	87264-3651	36.20 (1.425)	34.00 (1.339)
38	87264-3850	87264-3851	38.20 (1.504)	36.00 (1.417)
40	87264-4050	87264-4051	40.20 (1.583)	38.00 (1.496)
42	87264-4250	87264-4251	42.20 (1.661)	40.00 (1.575)
44	87264-4450	87264-4451	44.20 (1.740)	42.00 (1.654)
46	87264-4650	87264-4651	46.20 (1.819)	44.00 (1.732)
48	87264-4850	87264-4851	48.20 (1.898)	46.00 (1.811)
50	87264-5050	87264-5051	50.20 (1.976)	48.00 (1.890)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 50 circuits
- Low profile height 4.00mm
- Optional locating peg version, 4.50mm height version
- Longer PC tail option available, contact Molex

Reference Information

Product Specification: PS-87380
Packaging: Tube
UL File No.: E29179
CSA File No.: LR19980-212
Mates With: 0.50mm square pin headers
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.0A
Contact Resistance: 15mΩ max.
Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 180g max.
Normal Force: 50g min.

Physical

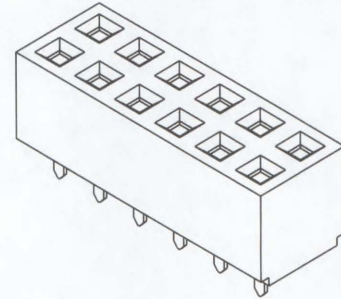
Housing: Black nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -55 to +105°C
PCB Thickness: 0.89 ± 0.13mm



2.00mm (.079") Pitch
Milli-Grid™
Receptacle

87380

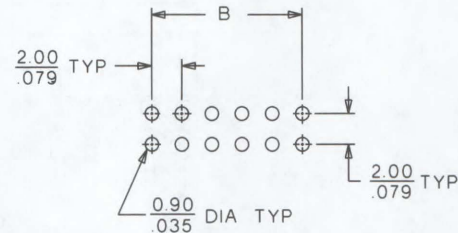
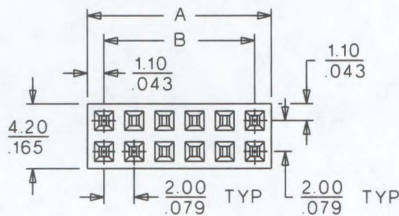
FPC/PCB
Vertical, SMC



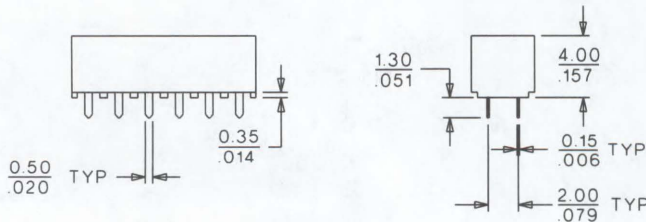
B

2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT : COMPONENT SIDE.
RECOMMENDED PCB THICKNESS: 0.90/.035



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
6	87380-0602	87380-0601	6.00 (.236)	4.00 (.157)
8	87380-0802	87380-0801	8.00 (.315)	6.00 (.236)
10	87380-1002	87380-1001	10.00 (.394)	8.00 (.315)
12	87380-1202	87380-1201	12.00 (.472)	10.00 (.394)
14	87380-1402	87380-1401	14.00 (.551)	12.00 (.472)
16	87380-1602	87380-1601	16.00 (.630)	14.00 (.551)
18	87380-1802	87380-1801	18.00 (.709)	16.00 (.630)
20	87380-2002	87380-2001	20.00 (.787)	18.00 (.709)
22	87380-2202	87380-2201	22.00 (.866)	20.00 (.787)
24	87380-2402	87380-2401	24.00 (.945)	22.00 (.866)
26	87380-2602	87380-2601	26.00 (1.024)	24.00 (.945)
28	87380-2802	87380-2801	28.00 (1.102)	26.00 (1.024)

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
30	87380-3002	87380-3001	30.00 (1.181)	28.00 (1.102)
32	87380-3202	87380-3201	32.00 (1.260)	30.00 (1.181)
34	87380-3402	87380-3401	34.00 (1.339)	32.00 (1.260)
36	87380-3602	87380-3601	36.00 (1.417)	34.00 (1.339)
38	87380-3802	87380-3801	38.00 (1.496)	36.00 (1.417)
40	87380-4002	87380-4001	40.00 (1.575)	38.00 (1.496)
42	87380-4202	87380-4201	42.00 (1.654)	40.00 (1.575)
44	87380-4402	87380-4401	44.00 (1.732)	42.00 (1.654)
46	87380-4602	87380-4601	46.00 (1.811)	44.00 (1.732)
48	87380-4802	87380-4801	48.00 (1.890)	46.00 (1.811)
50	87380-5002	87380-5001	50.00 (1.969)	48.00 (1.890)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 42 circuits
- Locating peg version standard
- Optional without peg version

Reference Information

Product Specification: PS-87263

Packaging: Tube (contact Molex for embossed tape and cap)

UL File No.: E29179

CSA File No.: LR19980

Mates With: 0.50mm square pin headers

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 300g max.

Normal Force: 50g min.

Physical

Housing: Black high-temperature nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

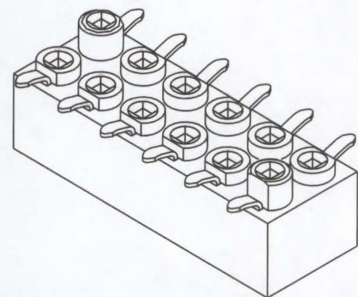
Operating Temperature: -55 to +105°C



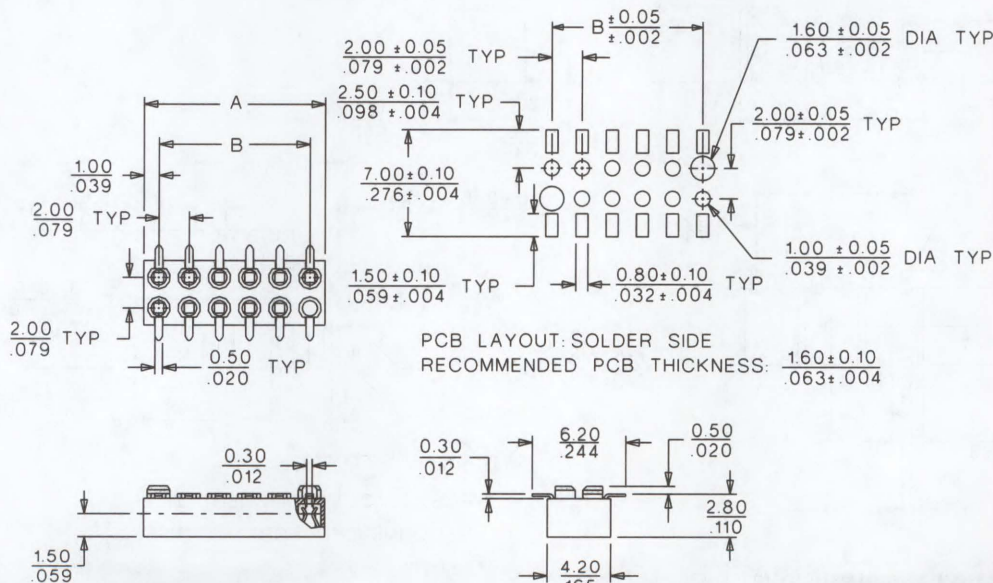
2.00mm (.079") Pitch Milli-Grid™ Receptacle

87263

Bottom Entry SMT



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
4	87263-0420	87263-0422	4.00 (.157)	2.00 (.079)
6	87263-0620	87263-0622	6.00 (.236)	4.00 (.157)
8	87263-0820	87263-0822	8.00 (.315)	6.00 (.236)
10	87263-1020	87263-1022	10.00 (.394)	8.00 (.315)
12	87263-1220	87263-1222	12.00 (.472)	10.00 (.394)
14	87263-1420	87263-1422	14.00 (.551)	12.00 (.472)
16	87263-1620	87263-1622	16.00 (.630)	14.00 (.551)
18	87263-1820	87263-1822	18.00 (.709)	16.00 (.630)
20	87263-2020	87263-2022	20.00 (.787)	18.00 (.709)
22	87263-2220	87263-2222	22.00 (.866)	20.00 (.787)

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
24	87263-2420	87263-2422	24.00 (.945)	22.00 (.866)
26	87263-2620	87263-2622	26.00 (1.024)	24.00 (.945)
28	87263-2820	87263-2822	28.00 (1.102)	26.00 (1.024)
30	87263-3020	87263-3022	30.00 (1.181)	28.00 (1.102)
32	87263-3220	87263-3222	32.00 (1.259)	30.00 (1.181)
34	87263-3420	87263-3422	34.00 (1.338)	32.00 (1.259)
36	87263-3620	87263-3622	36.00 (1.417)	34.00 (1.338)
38	87263-3820	87263-3822	38.00 (1.496)	36.00 (1.417)
40	87263-4020	87263-4022	40.00 (1.574)	38.00 (1.496)
42	87263-4220	87263-4222	42.00 (1.653)	40.00 (1.574)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 10 to 50 circuits
- MCC compatible
- Polarization peg version standard
- Optional without peg version

Reference Information

Product Specification: PS-87264

Packaging: Tube

Mates With: 0.50mm square pin headers

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 180g max.

Normal Force: 50g min.

Physical

Housing: Black nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -55 to +105°C

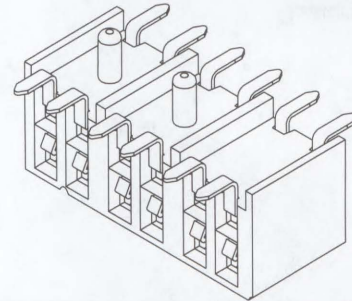
PCB Thickness: 1.60 ± 0.10mm



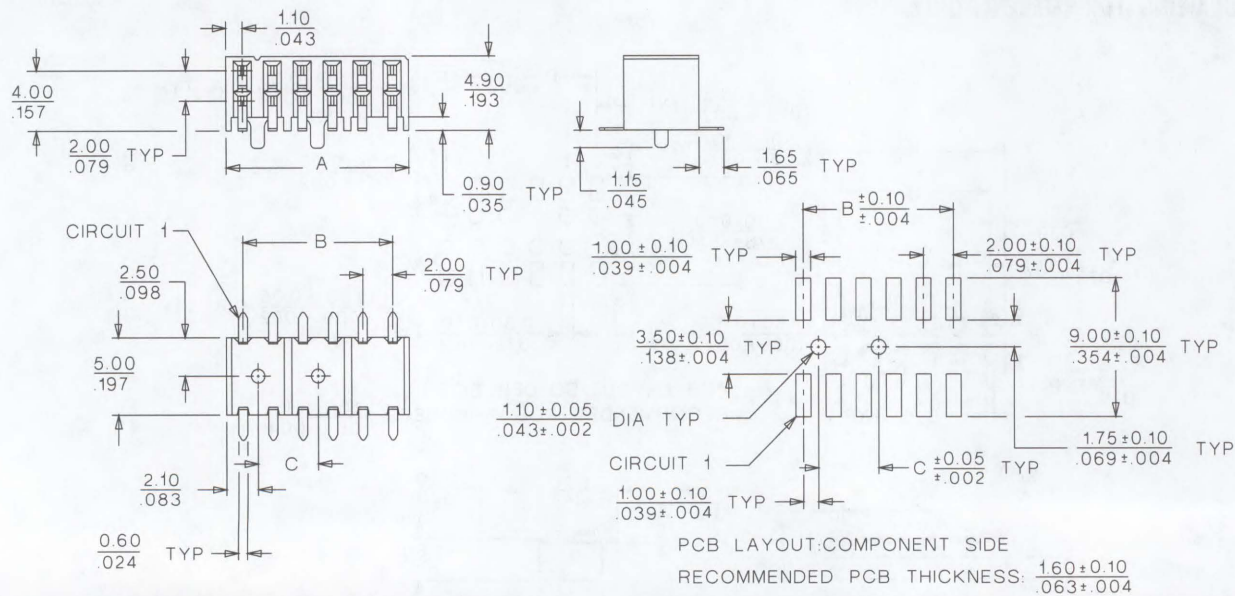
2.00mm (.079") Pitch Milli-Grid™ Receptacle

87368

**Side Entry
SMT**



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension		
	15μ" Select Gold	30μ" Select Gold	A	B	C
10	87368-1020	87368-1021	10.20 (.402)	8.00 (.315)	4.00 (.157)
12	87368-1220	87368-1221	12.20 (.480)	10.00 (.394)	4.00 (.157)
14	87368-1420	87368-1421	14.20 (.559)	12.00 (.472)	6.00 (.236)
16	87368-1620	87368-1621	16.20 (.638)	14.00 (.551)	8.00 (.315)
18	87368-1820	87368-1821	18.20 (.717)	16.00 (.630)	10.00 (.394)
20	87368-2020	87368-2021	20.20 (.795)	18.00 (.709)	12.00 (.472)
22	87368-2220	87368-2221	22.20 (.874)	20.00 (.787)	14.00 (.551)
24	87368-2420	87368-2421	24.20 (.953)	22.00 (.866)	16.00 (.630)
26	87368-2620	87368-2621	26.20 (1.031)	24.00 (.945)	18.00 (.709)
28	87368-2820	87368-2821	28.20 (1.110)	26.00 (1.024)	20.00 (.787)
30	87368-3020	87368-3021	30.20 (1.189)	28.00 (1.102)	22.00 (.866)
32	87368-3220	87368-3221	32.20 (1.268)	30.00 (1.181)	24.00 (.945)
34	87368-3420	87368-3421	34.20 (1.346)	32.00 (1.260)	26.00 (1.024)
36	87368-3620	87368-3621	36.20 (1.425)	34.00 (1.339)	28.00 (1.102)
38	87368-3820	87368-3821	38.20 (1.504)	36.00 (1.417)	30.00 (1.181)
40	87368-4020	87368-4021	40.20 (1.583)	38.00 (1.496)	32.00 (1.260)
42	87368-4220	87368-4221	42.20 (1.661)	40.00 (1.575)	34.00 (1.339)
44	87368-4420	87368-4421	44.20 (1.740)	42.00 (1.654)	36.00 (1.417)
46	87368-4620	87368-4621	46.20 (1.819)	44.00 (1.732)	38.00 (1.496)
48	87368-4820	87368-4821	48.20 (1.898)	46.00 (1.811)	40.00 (1.575)
50	87368-5020	87368-5021	50.20 (1.976)	48.00 (1.890)	42.00 (1.654)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 20 circuits
- Locating peg version standard
- Very low profile height 2.15mm
- End-to-end stackable
- Optional without peg version
- Contact Molex for pick-and-place cap or embossed tape

Reference Information

Product Specification: PS-87340
 Packaging: Tube
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 0.50mm square pin headers
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 1.0A
 Contact Resistance: 15mΩ max.
 Dielectric Withstanding Voltage: 1000V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 180g max.
 Contact Retention to Housing: 0.32kg min.
 Normal Force: 50g min.

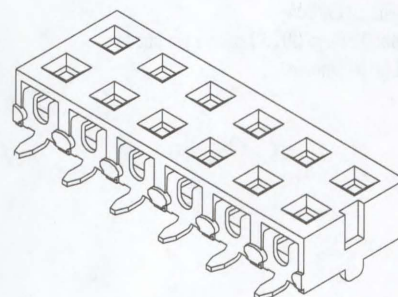
Physical

Housing: Black LCP, UL 94V-0
 Contact: Phosphor Bronze
 Plating: See Table
 Operating Temperature: -55 to +105°C

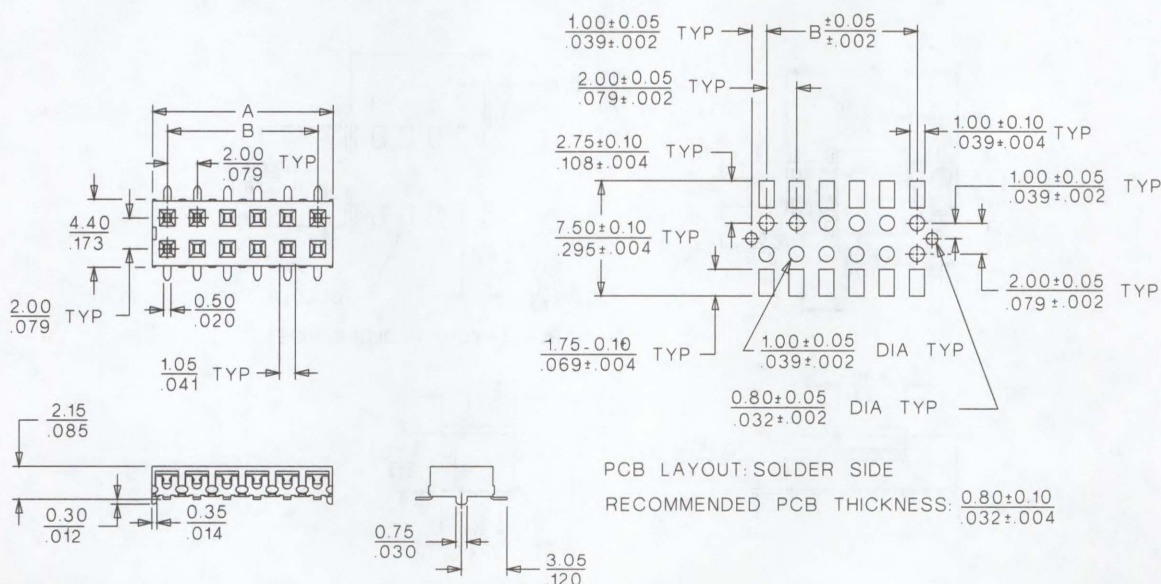
molex® 2.00mm (.079") Pitch Milli-Grid™ Receptacle

87340

Top Entry SMT (VLPR2)



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
4	87340-0422	87340-0421	4.00 (.157)	2.00 (.079)
6	87340-0622	87340-0621	6.00 (.236)	4.00 (.157)
8	87340-0822	87340-0821	8.00 (.315)	6.00 (.236)
10	87340-1022	87340-1021	10.00 (.394)	8.00 (.315)
12	87340-1222	87340-1221	12.00 (.472)	10.00 (.394)
14	87340-1422	87340-1421	14.00 (.551)	12.00 (.472)
16	87340-1622	87340-1621	16.00 (.630)	14.00 (.551)
18	87340-1822	87340-1821	18.00 (.709)	16.00 (.630)
20	87340-2022	87340-2021	20.00 (.787)	18.00 (.709)

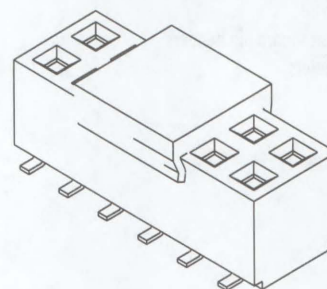


2.00mm (.079") Pitch

Milli-Grid™ Receptacle

87381

Dual Row, SMT Top Entry



2.00 to 2.50mm (.079 to .098") Pitch

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension		Circuits	Order No.		Dimension	
	0.38μm (15μ") Gold	0.76μm (30μ") Gold	A	B		0.38μm (15μ") Gold	0.76μm (30μ") Gold	A	B
6	87381-0662	87381-0661	6.00 (.236)	4.00 (.157)	30	87381-3062	87381-3061	30.00 (1.181)	28.00 (1.102)
8	87381-0862	87381-0861	8.00 (.315)	6.00 (.236)	32	87381-3262	87381-3261	32.00 (1.260)	30.00 (1.181)
10	87381-1062	87381-1061	10.00 (.394)	8.00 (.315)	34	87381-3462	87381-3461	34.00 (1.339)	32.00 (1.260)
12	87381-1262	87381-1261	12.00 (.472)	10.00 (.394)	36	87381-3662	87381-3661	36.00 (1.417)	34.00 (1.339)
14	87381-1462	87381-1461	14.00 (.551)	12.00 (.472)	38	87381-3862	87381-3861	38.00 (1.496)	36.00 (1.417)
16	87381-1662	87381-1661	16.00 (.630)	14.00 (.551)	40	87381-4062	87381-4061	40.00 (1.575)	38.00 (1.496)
18	87381-1862	87381-1861	18.00 (.709)	16.00 (.630)	42	87381-4262	87381-4261	42.00 (1.654)	40.00 (1.575)
20	87381-2062	87381-2061	20.00 (.787)	18.00 (.709)	44	87381-4462	87381-4461	44.00 (1.732)	42.00 (1.654)
22	87381-2262	87381-2261	22.00 (.866)	20.00 (.787)	46	87381-4662	87381-4661	46.00 (1.811)	44.00 (1.732)
24	87381-2462	87381-2461	24.00 (.945)	22.00 (.866)	48	87381-4862	87381-4861	48.00 (1.890)	46.00 (1.811)
28	87381-2862	87381-2861	28.00 (1.102)	24.00 (.945)	50	87381-5062	87381-5061	50.00 (1.969)	48.00 (1.890)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 10 to 50 circuits
- Provide additional cable retention

Reference Information

Product Specification: PS-87568-004

Packaging: Bag

Use With: 87568

Designed In: Millimeters

Physical

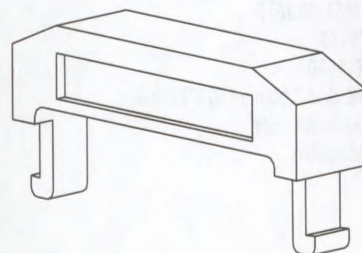
Housing: Thermoplastic, UL 94V-0



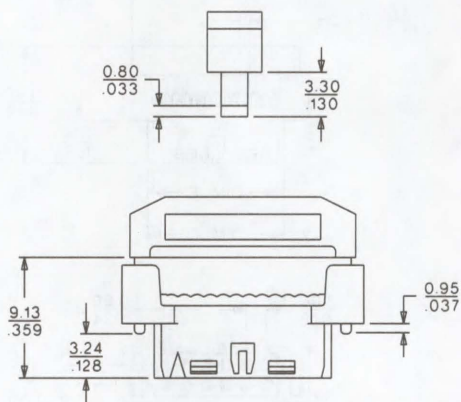
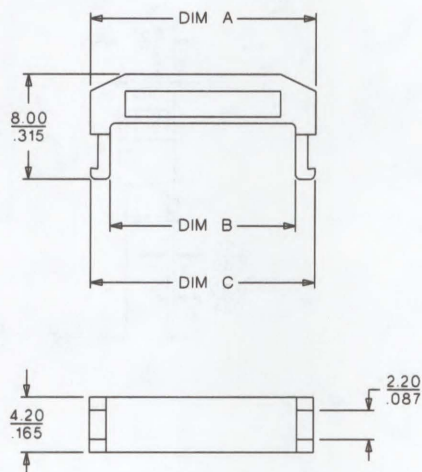
2.00mm (.079") Pitch Milli-Grid™ Cable-to-Board Strain Relief

87569

IDT



CATALOG DRAWING (FOR REFERENCE ONLY)



CABLE LOADED ASSEMBLY
WITH STRAIN RELIEF

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
10	87569-1010	15.40 (.610)	12.20 (.480)	14.10 (.560)
12	87569-1012	17.40 (.690)	14.20 (.560)	16.10 (.630)
14	87569-1014	19.40 (.760)	16.20 (.640)	18.10 (.710)
16	87569-1016	21.40 (.840)	18.20 (.720)	20.10 (.790)
20	87569-1020	25.40 (1.000)	22.20 (.870)	24.10 (.950)
22	87569-1022	27.40 (1.080)	24.20 (.950)	26.10 (1.030)
24	87569-1024	29.40 (1.160)	26.20 (1.030)	28.10 (1.110)
26	87569-1026	31.40 (1.240)	28.20 (1.110)	30.10 (1.190)
30	87569-1030	35.40 (1.390)	32.20 (1.270)	34.10 (1.340)
34	87569-1034	39.40 (1.550)	36.20 (1.430)	38.10 (1.500)
40	87569-1040	45.40 (1.790)	42.20 (1.660)	44.10 (1.740)
44	87569-1044	49.40 (1.940)	46.20 (1.820)	48.10 (1.890)
50	87569-1050	55.40 (2.180)	52.20 (2.060)	54.10 (2.130)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Pre-loaded upper housing offers precise cover-to-base alignment, ensuring a reliable termination
- Early-entry single-beam contact provides long wiping action during mating
- Optional polarization and locking ramp
- Optional strain relief is available

Reference Information

Product Specification: PS-87568-004
 Packaging: Tray
 Wire Style: UL2651, UL2678
 UL File No.: E29179
 CSA File No: LR19980
 Mates With: Milli-Grid 2.00mm (.079") Headers
 Use With: 87569 Strain Relief
 Designed In: Millimeters

Electrical

Voltage: 125V DC
 Current: 1.0A
 Contact Resistance: 30mΩ max.
 Dielectric Withstanding Voltage: 500V AC
 Insulation Resistance: 5000 MΩ min.

Mechanical

Contact Retention to Housing: 1.96N (0.44 lb) max.
 Wire Pull-Out Force: 2.45N (0.55 lb) max.
 Mating Force: 1.96N (0.44 lb) max.
 Unmating Force: 0.39N (0.09 lb) min.
 Durability: 600 cycles max.

Physical

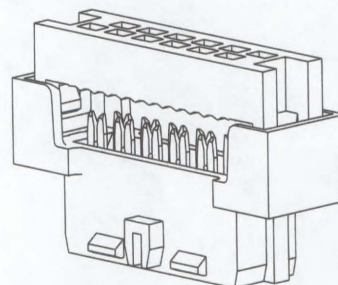
Housing: High Thermoplastic, UL 94V-0
 Contact: Copper Alloy
 Plating: Contact Area—See Table Below
 Underplating—Nickel
 Operating Temperature: -20 to +85°C
 Cable: 1.00mm Flat Cable, 7 Strands, 28 AWG



2.00mm (.079") Pitch Milli-Grid™ Cable-to-Board Receptacle

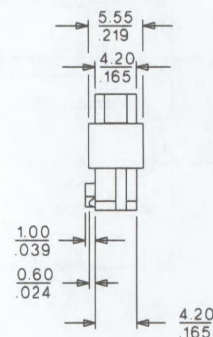
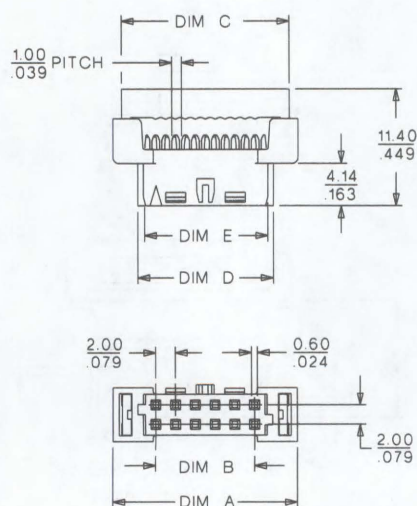
87568

Dual Row, IDT



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension				
	0.38μm (15μm) Gold	0.76μm (30μm) Gold	A	B	C	D	E
10	87568-10X1	87568-10X2	16.65 (.660)	8.00 (.310)	14.90 (.590)	11.65 (.460)	10.55 (.420)
12	87568-12X1	87568-12X2	18.65 (.730)	10.00 (.390)	16.90 (.670)	13.65 (.540)	12.55 (.490)
14	87568-14X1	87568-14X2	20.65 (.810)	12.00 (.470)	18.90 (.740)	15.65 (.620)	14.55 (.570)
16	87568-16X1	87568-16X2	22.65 (.890)	14.00 (.550)	20.90 (.820)	17.65 (.690)	16.55 (.650)
20	87568-20X1	87568-20X2	26.65 (1.050)	18.00 (.710)	24.90 (.980)	21.65 (.850)	20.55 (.810)
22	87568-22X1	87568-22X2	28.65 (1.130)	20.00 (.790)	26.90 (1.060)	23.65 (.930)	22.55 (.890)
24	87568-24X1	87568-24X2	30.65 (1.210)	22.00 (.870)	28.90 (1.140)	25.65 (1.010)	24.55 (.970)
26	87568-26X1	87568-26X2	32.65 (1.290)	24.00 (.940)	30.90 (1.220)	27.65 (1.090)	26.55 (1.050)
30	87568-30X1	87568-30X2	36.65 (1.440)	28.00 (1.100)	34.90 (1.370)	31.65 (1.250)	30.55 (1.200)
34	87568-34X1	87568-34X2	40.65 (1.600)	32.00 (1.260)	38.90 (1.530)	35.65 (1.400)	34.55 (1.360)
40	87568-40X1	87568-40X2	46.65 (1.840)	38.00 (1.500)	44.90 (1.770)	41.65 (1.640)	40.55 (1.600)
44	87568-44X1	87568-44X2	50.65 (1.990)	42.00 (1.650)	48.90 (1.930)	45.65 (1.800)	44.55 (1.750)
50	87568-50X1	87568-50X2	56.65 (2.230)	48.00 (1.890)	54.90 (2.160)	51.65 (2.430)	50.55 (1.990)

Circuits	X=4 With Center Polarization	X=6 Without Polarization and Locking Ramp	X=7 With Single Locking Ramp	X=9 With Polarization and Locking Ramp
10	No	Yes	Yes	No
12	No	Yes	Yes	No
14	Yes	Yes	No	Yes
16	Yes	Yes	No	Yes
20	Yes	Yes	No	Yes
22	Yes	Yes	No	Yes
24	Yes	Yes	No	Yes
26	Yes	Yes	No	Yes
30	Yes	Yes	No	Yes
34	Yes	Yes	No	Yes
40	Yes	Yes	No	Yes
44	Yes	Yes	No	Yes
50	Yes	Yes	No	Yes

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 8 to 50 circuits
- Locating peg version standard
- Optional voided pin version and without peg version
- Contact Molex for pick-and-place cap or embossed tape

Reference Information

Product Specification: PS-87049

Packaging: Tube (contact Molex for embossed tape)

UL File No.: E29179

CSA File No.: LR19980-202

Mates With: Milli-Grid 2.00mm Receptacles

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 2.0A

Dielectric Withstanding Voltage: 500V

Insulation Resistance: 1000 M Ω min.

Physical

Housing: Black high-temperature nylon, UL 94V-0

Contact: Phosphor Bronze, 0.50mm square

Plating: See Table

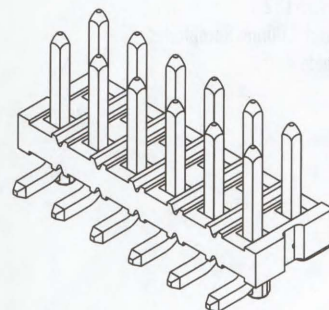
Operating Temperature: -55 to +105°C

PCB Thickness: $1.60 \pm 0.10\text{mm}$

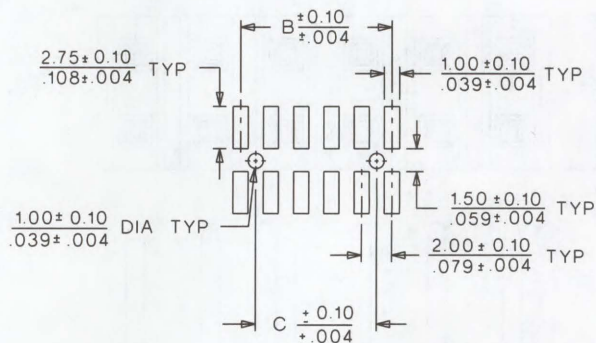
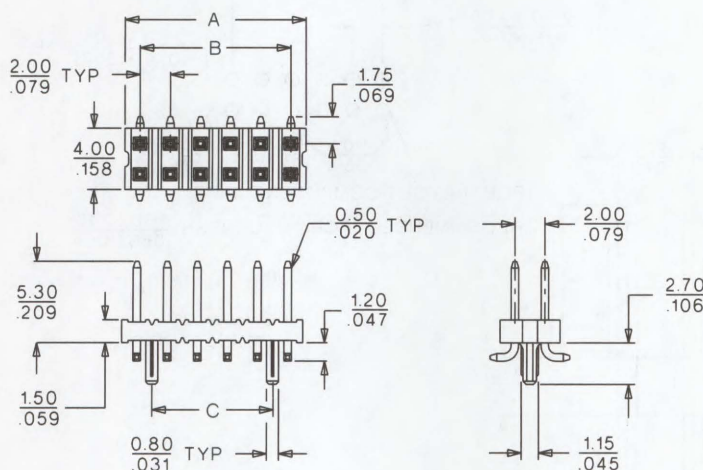
**molex® 2.00mm (.079") Pitch
Milli-Grid™
Header**

87267

Vertical SMT



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: SOLDER SIDE

RECOMMENDED PCB THICKNESS: $\frac{1.60 \pm 0.10}{0.063 \pm 0.004}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	15 μ m Select Gold	30 μ m Select Gold	A	B
8	87267-0850	87267-0851	7.90 (.311)	6.00 (.236)
10	87267-1050	87267-1051	9.90 (.390)	8.00 (.315)
12	87267-1250	87267-1251	11.90 (.469)	10.00 (.394)
14	87267-1450	87267-1451	13.90 (.547)	12.00 (.472)
16	87267-1650	87267-1651	15.90 (.626)	14.00 (.551)
18	87267-1850	87267-1851	17.90 (.709)	16.00 (.630)
20	87267-2050	87267-2051	19.90 (.783)	18.00 (.709)
22	87267-2250	87267-2251	21.90 (.862)	20.00 (.787)
24	87267-2450	87267-2451	23.90 (.941)	22.00 (.866)
26	87267-2650	87267-2651	25.90 (1.020)	24.00 (.945)
28	87267-2850	87267-2851	27.90 (1.098)	26.00 (1.024)

Circuits	Order No.		Dimension	
	15 μ m Select Gold	30 μ m Select Gold	A	B
30	87267-3050	87267-3051	29.90 (1.177)	28.00 (1.102)
32	87267-3250	87267-3251	31.90 (1.256)	30.00 (1.181)
34	87267-3450	87267-3451	33.90 (1.335)	32.00 (1.260)
36	87267-3650	87267-3651	35.90 (1.413)	34.00 (1.339)
38	87267-3850	87267-3851	37.90 (1.492)	36.00 (1.417)
40	87267-4050	87267-4051	39.90 (1.571)	38.00 (1.496)
42	87267-4250	87267-4251	41.90 (1.650)	40.00 (1.575)
44	87267-4450	87267-4451	43.90 (1.728)	42.00 (1.654)
46	87267-4650	87267-4651	45.90 (1.807)	44.00 (1.732)
48	87267-4850	87267-4851	47.90 (1.886)	46.00 (1.811)
50	87267-5050	87267-5051	49.90 (1.965)	48.00 (1.890)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- End-to-end stackable
- Optional voided pin version, kinked PC tail and other PC tail lengths
- Surface Mount Compatible

Reference Information

Product Specification: PS-87049

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980-182

Mates With: Milli-Grid 2.00mm Receptacles

Designed In: Millimeters

Electrical

Current: 2.0A

Dielectric Withstanding Voltage: 500V

Insulation Resistance: 1000 MΩ min.

Physical

Housing: High-temperature 4/6 nylon, UL 94V-0

Contact: Phosphor Bronze, 0.50mm square

Plating: See Table

Operating Temperature: -55 to +105°C

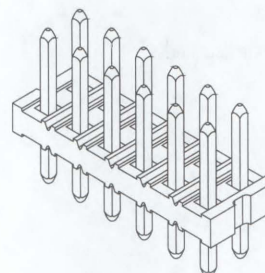
PCB Thickness: 1.60 ± 0.10mm



2.00mm (.079") Pitch
Milli-Grid™
Header

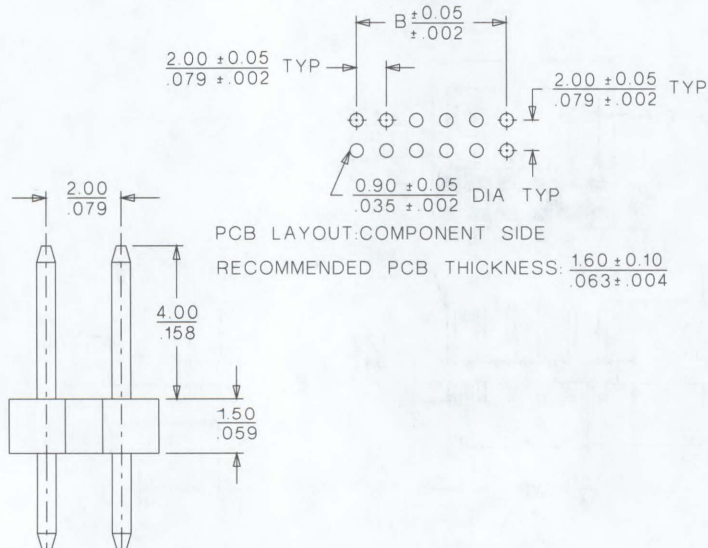
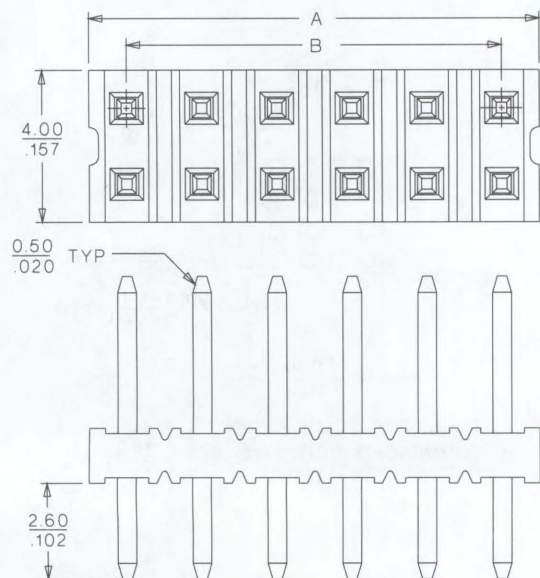
87089

Vertical



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
4	87089-0416	87089-0417	3.90 (.154)	2.00 (.079)
6	87089-0616	87089-0617	5.90 (.232)	4.00 (.157)
8	87089-0816	87089-0817	7.90 (.311)	6.00 (.236)
10	87089-1016	87089-1017	9.90 (.390)	8.00 (.315)
12	87089-1216	87089-1217	11.90 (.469)	10.00 (.394)
14	87089-1416	87089-1417	13.90 (.547)	12.00 (.472)
16	87089-1616	87089-1617	15.90 (.626)	14.00 (.551)
18	87089-1816	87089-1817	17.90 (.705)	16.00 (.630)
20	87089-2016	87089-2017	19.90 (.783)	18.00 (.709)
22	87089-2216	87089-2217	21.90 (.862)	20.00 (.787)
24	87089-2416	87089-2417	23.90 (.941)	22.00 (.866)
26	87089-2616	87089-2617	25.90 (1.020)	24.00 (.945)

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
28	87089-2816	87089-2817	27.90 (1.098)	26.00 (1.024)
30	87089-3016	87089-3017	29.90 (1.177)	28.00 (1.102)
32	87089-3216	87089-3217	31.90 (1.256)	30.00 (1.181)
34	87089-3416	87089-3417	33.90 (1.335)	32.00 (1.260)
36	87089-3616	87089-3617	35.90 (1.413)	34.00 (1.339)
38	87089-3816	87089-3817	37.90 (1.492)	36.00 (1.417)
40	87089-4016	87089-4017	39.90 (1.571)	38.00 (1.496)
42	87089-4216	87089-4217	41.90 (1.650)	40.00 (1.575)
44	87089-4416	87089-4417	43.90 (1.728)	42.00 (1.654)
46	87089-4616	87089-4617	45.90 (1.807)	44.00 (1.732)
48	87089-4816	87089-4817	47.90 (1.886)	46.00 (1.811)
50	87089-5016	87089-5017	49.90 (1.965)	48.00 (1.890)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Fully shrouded to protect pins during mating/unmating
- Center slot for polarization
- Front latches for mechanical locking
- Center polarization slot (6 to 12 circuits); center polarization slot and front latches (14 to 50 circuits)

Electrical

Current: 2.0A
Dielectric Withstanding Voltage: 1000V
Insulation Resistance: 1000 MΩ min.

Physical

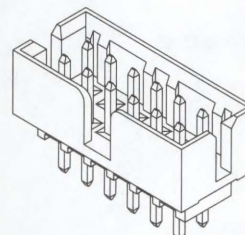
Housing: Black 4/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -55 to +105°C



**2.00mm (.079") Pitch
Milli-Grid™
Header**

87331

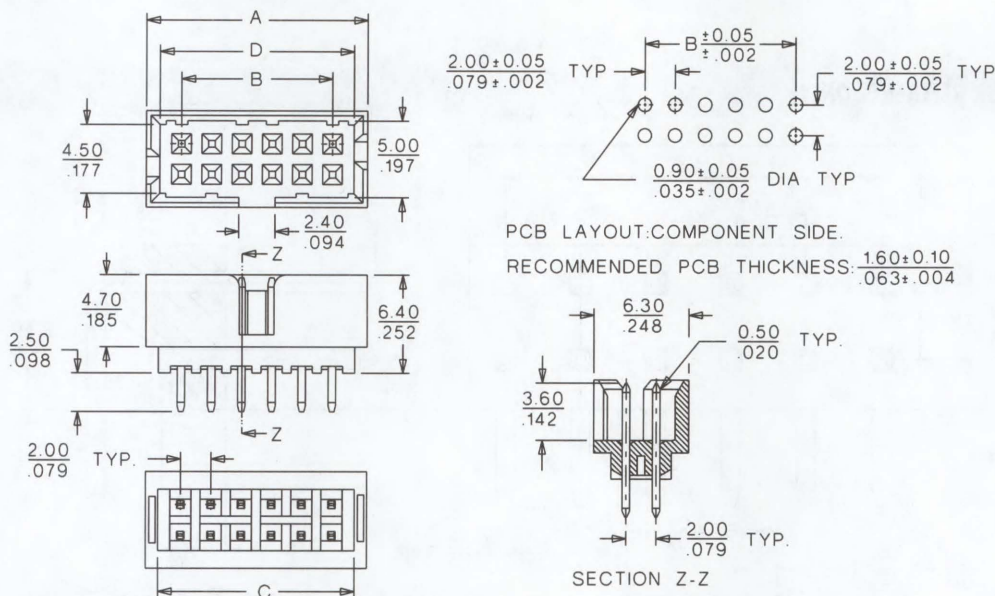
**Shrouded
Vertical, SMC**



Reference Information

Product Specification: PS-87331
Packaging: Tube
UL File No.: E29179
CSA File No.: LR19980
Mates With: 50394, 51110 and 87568
Designed In: Millimeters

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension			
	15μ" Select Gold	30μ" Select Gold	A	B	C	D
4	87331-0420	87331-0421	6.65 (.262)	2.00 (.079)	5.00 (.197)	4.85 (.191)
6	87331-0620	87331-0621	8.65 (.341)	4.00 (.157)	7.00 (.276)	6.85 (.270)
8	87331-0820	87331-0821	10.65 (.419)	6.00 (.236)	9.00 (.354)	8.85 (.348)
10	87331-1020	87331-1021	12.65 (.498)	8.00 (.315)	11.00 (.433)	10.85 (.427)
12	87331-1220	87331-1221	14.65 (.577)	10.00 (.394)	13.00 (.512)	12.85 (.506)
14	87331-1420	87331-1421	16.65 (.656)	12.00 (.472)	15.00 (.591)	14.85 (.585)
16	87331-1620	87331-1621	18.65 (.734)	14.00 (.551)	17.00 (.669)	16.85 (.663)
18	87331-1820	87331-0621	20.65 (.813)	16.00 (.630)	19.00 (.748)	18.85 (.742)
20	87331-2020	87331-2021	22.65 (.892)	18.00 (.709)	21.00 (.827)	20.85 (.821)
22	87331-2220	87331-2221	24.65 (.970)	20.00 (.787)	23.00 (.906)	22.85 (.900)
24	87331-2420	87331-2421	26.65 (1.049)	22.00 (.866)	25.00 (.984)	24.85 (.978)
26	87331-2620	87331-2621	28.65 (1.128)	24.00 (.945)	27.00 (1.063)	26.85 (1.057)
28	87331-2820	87331-2821	30.65 (1.207)	26.00 (1.024)	29.00 (1.142)	28.85 (1.136)
30	87331-3020	87331-3021	32.65 (1.285)	28.00 (1.102)	31.00 (1.220)	30.85 (1.215)
32	87331-3220	87331-3221	34.65 (1.364)	30.00 (1.181)	33.00 (1.299)	32.85 (1.293)
34	87331-3420	87331-3421	36.65 (1.443)	32.00 (1.260)	35.00 (1.378)	34.85 (1.372)
36	87331-3620	87331-3621	38.65 (1.522)	34.00 (1.339)	37.00 (1.457)	36.85 (1.451)
38	87331-3820	87331-3821	40.65 (1.600)	36.00 (1.417)	39.00 (1.535)	38.85 (1.530)
40	87331-4020	87331-4021	42.65 (1.679)	38.00 (1.496)	41.00 (1.614)	40.85 (1.608)
42	87331-4220	87331-4221	44.65 (1.758)	40.00 (1.575)	43.00 (1.693)	42.85 (1.687)
44	87331-4420	87331-4421	46.65 (1.837)	42.00 (1.654)	45.00 (1.771)	44.85 (1.766)
46	87331-4620	87331-4621	48.65 (1.915)	44.00 (1.732)	47.00 (1.850)	46.85 (1.844)
48	87331-4820	87331-4821	50.65 (1.994)	46.00 (1.811)	49.00 (1.929)	48.85 (1.923)
50	87331-5020	87331-5021	52.65 (2.073)	48.00 (1.890)	51.00 (2.008)	50.85 (2.002)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- End-to-end stackable
- Optional voided pin version and kinked PC tail
- I.R. reflow version (plastic material), contact Molex

Reference Information

Product Specification: PS-87049
 Packaging: Tray
 UL File No.: E29179
 CSA File No.: LR19980-182
 Mates With: Milli-Grid 2.00mm receptacles
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 2.0A
 Dielectric Withstanding Voltage: 500V
 Insulation Resistance: 1000 MΩ min.

Physical

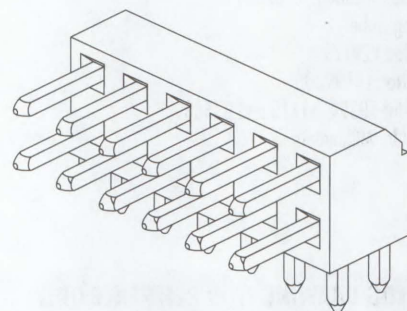
Housing: Black glass-filled polyester, UL 94V-0
 Contact: Phosphor Bronze, 0.50mm square
 Plating: See Table
 Operating Temperature: -55 to +105°C
 PCB Thickness: 1.60 ± 0.10mm



**2.00mm (.079") Pitch
 Milli-Grid™
 Header**

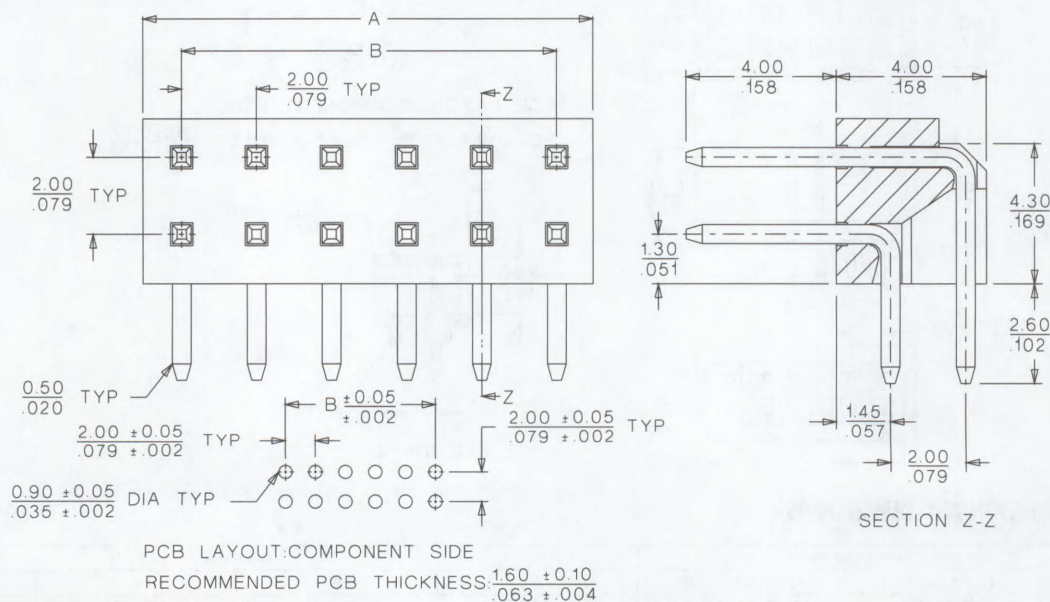
87049

Right Angle



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
4	87049-0416	87049-0417	4.00 (.157)	2.00 (.079)
6	87049-0616	87049-0617	6.00 (.236)	4.00 (.157)
8	87049-0816	87049-0817	8.00 (.315)	6.00 (.236)
10	87049-1016	87049-1017	10.00 (.394)	8.00 (.315)
12	87049-1216	87049-1217	12.00 (.472)	10.00 (.394)
14	87049-1416	87049-1417	14.00 (.551)	12.00 (.472)
16	87049-1616	87049-1617	16.00 (.630)	14.00 (.551)
18	87049-1816	87049-1817	18.00 (.709)	16.00 (.630)
20	87049-2016	87049-2017	20.00 (.787)	18.00 (.709)
22	87049-2216	87049-2217	22.00 (.866)	20.00 (.787)
24	87049-2416	87049-2417	24.00 (.945)	22.00 (.866)
26	87049-2616	87049-2617	26.00 (1.024)	24.00 (.945)

Circuits	Order No.		Dimension	
	15μ" Select Gold	30μ" Select Gold	A	B
28	87049-2816	87049-2817	28.00 (1.102)	26.00 (1.024)
30	87049-3016	87049-3017	30.00 (1.181)	28.00 (1.102)
32	87049-3216	87049-3217	32.00 (1.260)	30.00 (1.181)
34	87049-3416	87049-3417	34.00 (1.339)	32.00 (1.260)
36	87049-3616	87049-3617	36.00 (1.417)	34.00 (1.339)
38	87049-3816	87049-3817	38.00 (1.496)	36.00 (1.417)
40	87049-4016	87049-4017	40.00 (1.575)	38.00 (1.496)
42	87049-4216	87049-4217	42.00 (1.654)	40.00 (1.575)
44	87049-4416	87049-4417	44.00 (1.732)	42.00 (1.654)
46	87049-4616	87049-4617	46.00 (1.811)	44.00 (1.732)
48	87049-4816	87049-4817	48.00 (1.890)	46.00 (1.811)
50	87049-5016	87049-5017	50.00 (1.969)	48.00 (1.890)

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Fully shrouded to protect pins during mating/unmating
- Center slot for polarization
- Front latches for mechanical locking
- Center polarization slot (6 to 12 circuits); center polarization slot and front latches (14 to 50 circuits)
- Surface Mount Compatible

Reference Information

Product Specification: PS-87331
Packaging: Tube
UL File No.: E29179
CSA File No.: LR19980
Mates With: 50394, 51110 and 87568
Designed In: Millimeters

Electrical

Current: 2.0A
Dielectric Withstanding Voltage: 1000V
Insulation Resistance: 1000 MΩ min.

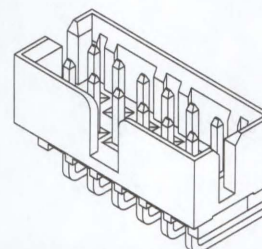
Physical

Housing: Black 4/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -55 to +105°C

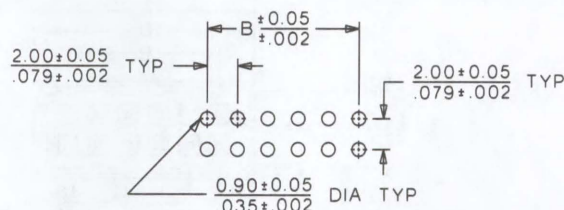
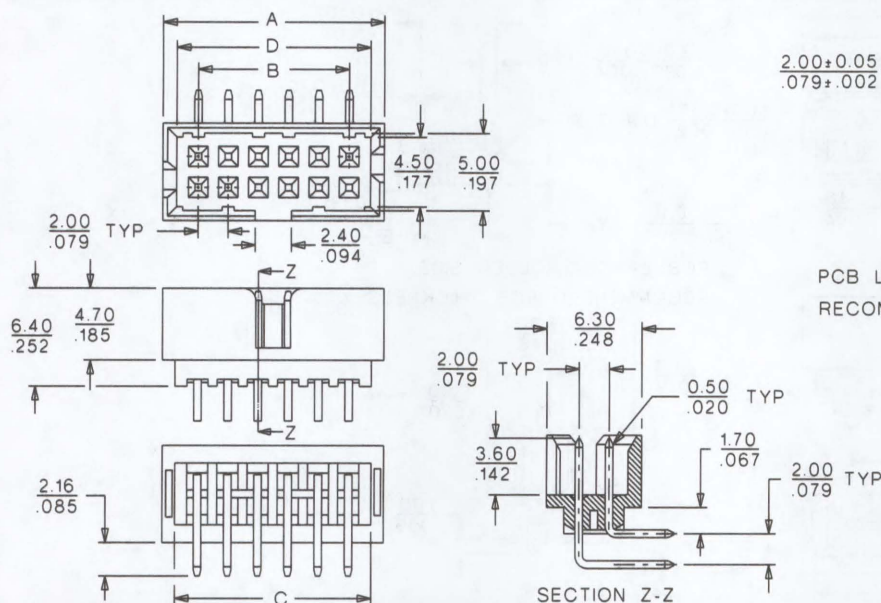


2.00mm (.079") Pitch Milli-Grid™ Header

87333 Shrouded Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension			
	15μ" Select Gold	30μ" Select Gold	A	B	C	D
4	87333-0420	87333-0421	6.65 (.262)	2.00 (.079)	5.00 (.197)	4.85 (.191)
6	87333-0620	87333-0621	8.65 (.341)	4.00 (.157)	7.00 (.276)	6.85 (.270)
8	87333-0820	87333-0821	10.65 (.419)	6.00 (.236)	9.00 (.354)	8.85 (.348)
10	87333-1020	87333-1021	12.65 (.498)	8.00 (.315)	11.00 (.433)	10.85 (.427)
12	87333-1220	87333-1221	14.65 (.577)	10.00 (.394)	13.00 (.512)	12.85 (.506)
14	87333-1420	87333-1421	16.65 (.656)	12.00 (.472)	15.00 (.591)	14.85 (.585)
16	87333-1620	87333-1621	18.65 (.734)	14.00 (.551)	17.00 (.669)	16.85 (.663)
18	87333-1820	87333-1821	20.65 (.813)	16.00 (.630)	19.00 (.748)	18.85 (.742)
20	87333-2020	87333-2021	22.65 (.892)	18.00 (.709)	21.00 (.827)	20.85 (.821)
22	87333-2220	87333-2221	24.65 (.970)	20.00 (.787)	23.00 (.906)	22.85 (.900)
24	87333-2420	87333-2421	26.65 (1.049)	22.00 (.866)	25.00 (.984)	24.85 (.978)
26	87333-2620	87333-2621	28.65 (1.128)	24.00 (.945)	27.00 (1.063)	26.85 (1.057)
28	87333-2820	87333-2821	30.65 (1.207)	26.00 (1.024)	29.00 (1.142)	28.85 (1.136)
30	87333-3020	87333-3021	32.65 (1.285)	28.00 (1.102)	31.00 (1.220)	30.85 (1.215)
32	87333-3220	87333-3221	34.65 (1.364)	30.00 (1.181)	33.00 (1.299)	32.85 (1.293)
34	87333-3420	87333-3421	36.65 (1.443)	32.00 (1.260)	35.00 (1.378)	34.85 (1.372)
36	87333-3620	87333-3621	38.65 (1.522)	34.00 (1.339)	37.00 (1.457)	36.85 (1.451)
38	87333-3820	87333-3821	40.65 (1.600)	36.00 (1.417)	39.00 (1.535)	38.85 (1.530)
40	87333-4020	87333-4021	42.65 (1.679)	38.00 (1.496)	41.00 (1.614)	40.85 (1.608)
42	87333-4220	87333-4221	44.65 (1.758)	40.00 (1.575)	43.00 (1.693)	42.85 (1.687)
44	87333-4420	87333-4421	46.65 (1.837)	42.00 (1.654)	45.00 (1.792)	44.85 (1.766)
46	87333-4620	87333-4621	48.65 (1.915)	44.00 (1.732)	47.00 (1.850)	46.85 (1.844)
48	87333-4820	87333-4821	50.65 (1.994)	46.00 (1.811)	49.00 (1.929)	48.85 (1.923)
50	87333-5020	87333-5021	52.65 (2.073)	48.00 (1.890)	51.00 (2.008)	50.85 (2.002)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Fully shrouded to protect pins during mating/unmating
- Center slot for polarization
- Front latches for mechanical locking
- Locating pegs for automatic insertion process
- Center polarization slot (6 to 12 circuits); center polarization and front latches (14 to 50 circuits)

Reference Information

Product Specification: PS-87331
Packaging: Tube
UL File No.: E29179
CSA File No.: LR19980
Mates With: 50394, 51110 and 87568
Designed In: Millimeters

Electrical

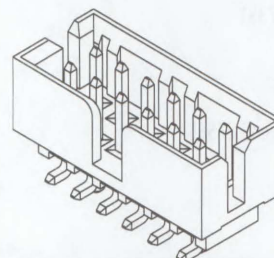
Current: 2.0A
Dielectric Withstanding Voltage: 1000V
Insulation Resistance: 1000 MΩ min.

Physical

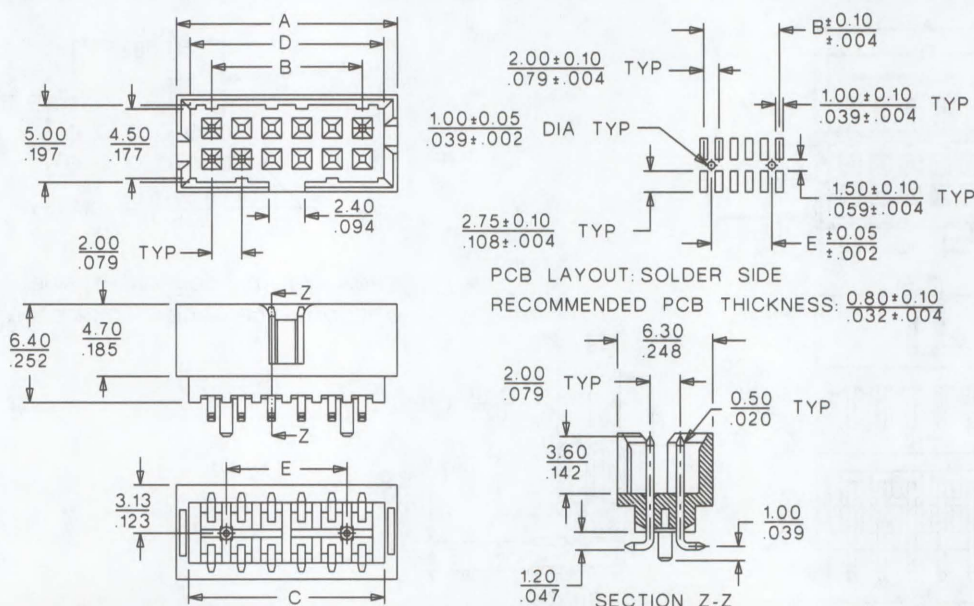
Housing: Black 4/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -55 to +105°C

molex 2.00mm (.079") Pitch
Milli-Grid™
Header

87332
Shrouded
SMT



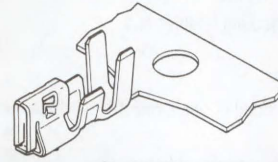
CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension				
	15μ" Select Gold	30μ" Select Gold	A	B	C	D	E
4	87332-0420	87332-0421	6.65 (.262)	2.00 (.079)	5.00 (.197)	4.85 (.191)	
6	87332-0620	87332-0621	8.65 (.341)	4.00 (.157)	7.00 (.276)	6.85 (.270)	2.00 (.079)
8	87332-0820	87332-0821	10.65 (.419)	6.00 (.236)	9.00 (.354)	8.85 (.348)	4.00 (.157)
10	87332-1020	87332-1021	12.65 (.498)	8.00 (.315)	11.00 (.433)	10.85 (.427)	6.00 (.236)
12	87332-1220	87332-1221	14.65 (.577)	10.00 (.394)	13.00 (.512)	12.85 (.506)	8.00 (.315)
14	87332-1420	87332-1421	16.65 (.656)	12.00 (.472)	15.00 (.591)	14.85 (.585)	10.00 (.394)
16	87332-1620	87332-1621	18.65 (.734)	14.00 (.551)	17.00 (.669)	16.85 (.663)	12.00 (.472)
18	87332-1820	87332-1821	20.65 (.813)	16.00 (.630)	19.00 (.748)	18.85 (.742)	14.00 (.551)
20	87332-2020	87332-2021	22.65 (.892)	18.00 (.709)	21.00 (.827)	20.85 (.821)	16.00 (.630)
22	87332-2220	87332-2221	24.65 (.970)	20.00 (.787)	23.00 (.906)	22.85 (.900)	18.00 (.709)
24	87332-2420	87332-2421	26.65 (1.049)	22.00 (.866)	25.00 (.984)	24.85 (.978)	20.00 (.787)
26	87332-2620	87332-2621	28.65 (1.128)	24.00 (.945)	27.00 (1.063)	26.85 (1.057)	22.00 (.866)
28	87332-2820	87332-2821	30.65 (1.207)	26.00 (1.024)	29.00 (1.142)	28.85 (1.136)	24.00 (.945)
30	87332-3020	87332-3021	32.65 (1.285)	28.00 (1.102)	31.00 (1.220)	30.85 (1.215)	26.00 (1.024)
32	87332-3220	87332-3221	34.65 (1.364)	30.00 (1.181)	33.00 (1.299)	32.85 (1.293)	28.00 (1.102)
34	87332-3420	87332-3421	36.65 (1.443)	32.00 (1.260)	35.00 (1.378)	34.85 (1.372)	30.00 (1.181)
36	87332-3620	87332-3621	38.65 (1.522)	34.00 (1.339)	37.00 (1.457)	36.85 (1.451)	32.00 (1.260)
38	87332-3820	87332-3821	40.65 (1.600)	36.00 (1.417)	39.00 (1.535)	38.85 (1.530)	34.00 (1.339)
40	87332-4020	87332-4021	42.65 (1.679)	38.00 (1.496)	41.00 (1.614)	40.85 (1.608)	36.00 (1.417)
42	87332-4220	87332-4221	44.65 (1.758)	40.00 (1.575)	43.00 (1.693)	42.85 (1.687)	38.00 (1.496)
44	87332-4420	87332-4421	46.65 (1.837)	42.00 (1.654)	45.00 (1.792)	44.85 (1.766)	40.00 (1.575)
46	87332-4620	87332-4621	48.65 (1.915)	44.00 (1.732)	47.00 (1.850)	46.85 (1.844)	42.00 (1.654)
48	87332-4820	87332-4821	50.65 (1.994)	46.00 (1.811)	49.00 (1.929)	48.85 (1.923)	44.00 (1.732)
50	87332-5020	87332-5021	52.65 (2.073)	48.00 (1.890)	51.00 (2.008)	50.85 (2.002)	46.00 (1.811)

**50212
Terminal**

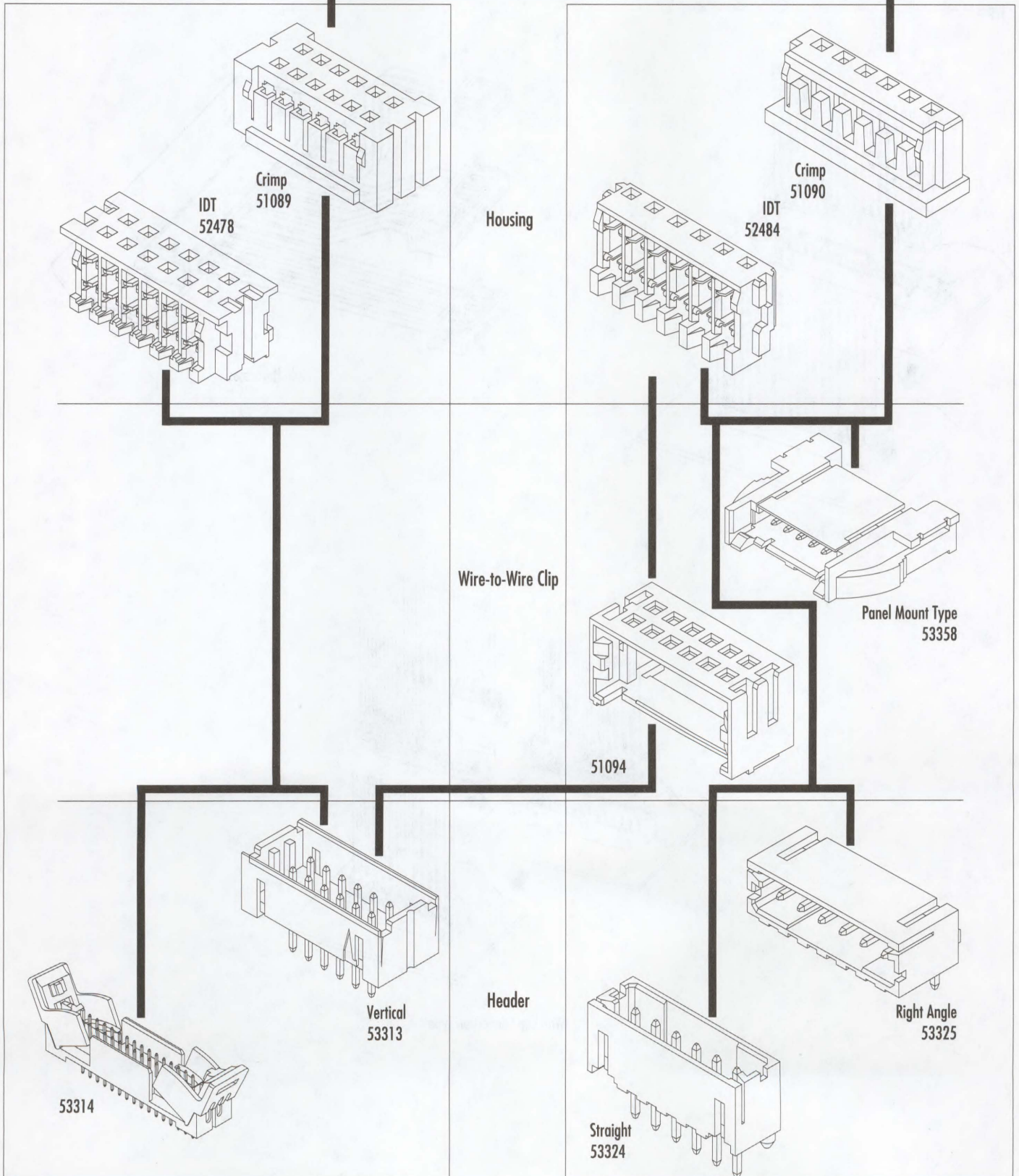


Dual Row

Single Row

B

2.00 to 2.50mm (.079 to .098") Pitch



FEATURES

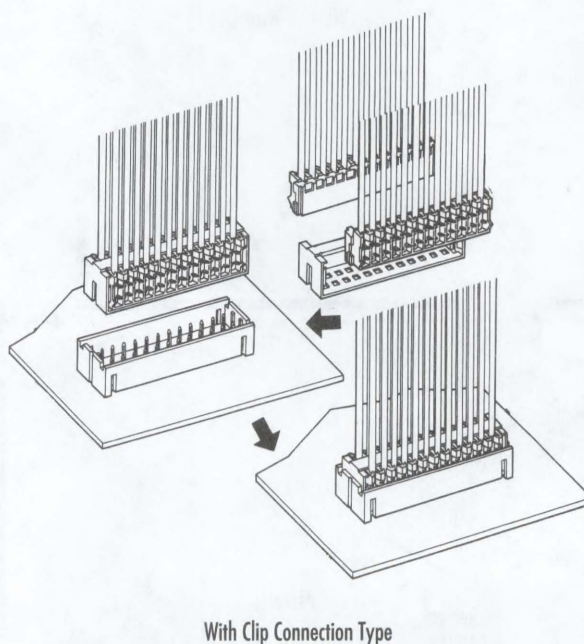
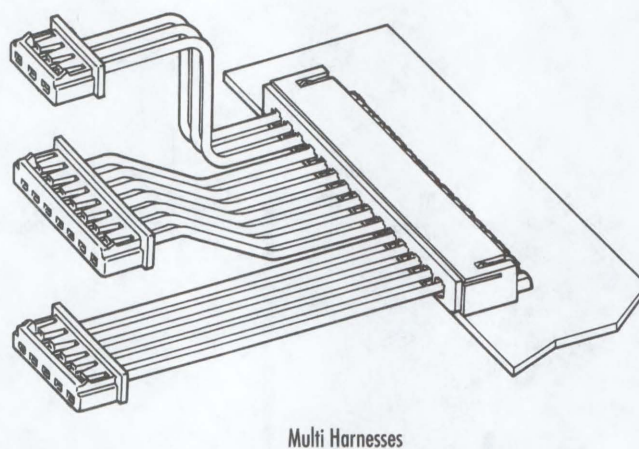
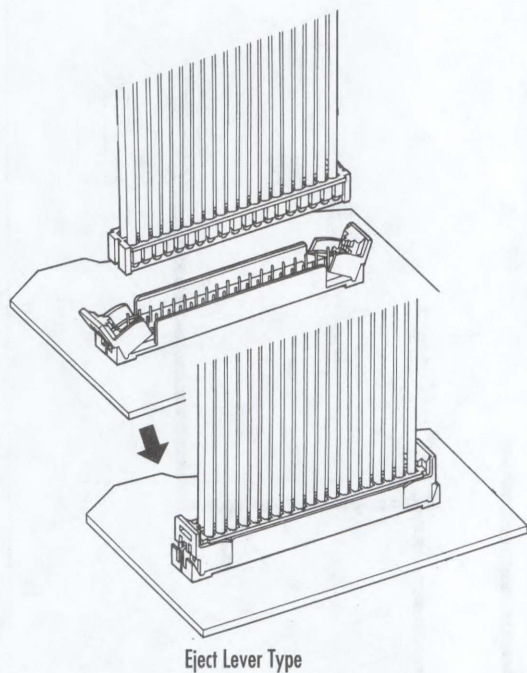
- 2.00mm pitch low profile wire-to-board connector
- Single and dual row, crimp and IDT
- Low insertion force design, locking features and high reliability
- Kinked header pins
- Clip allows back-to-back stacking of single row IDT assemblies
- Application tooling for use in assembling harnesses
- Board-in type is available in vertical and right angle types



Mi II (2.00 x 2.50mm) Connection System

B

2.00 to 2.50mm (.079 to .098") Pitch



2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 10 circuits
- Internal positive lock provides secure housing retention, space savings and easy mating/unmating
- Housing locking lance for terminal retention
- Polarized to ensure correct terminal and housing insertion
- Guide ledge facilitates receptacle insertion
- Stagger design to accommodate wire size

Reference Information

Product Specification: Contact Molex
 Packaging: Bag
 Mates With: 52484
 Use With: 59342 terminal and 58916 retainer
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 2.5A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 500V AC/1 min.
 Insulation Resistance: 1000 MΩ min.

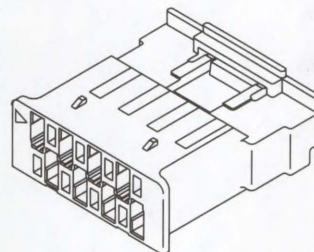
Physical

Housing: White PBT, UL 94V-0
 Operating Temperature: -40 to +105°C

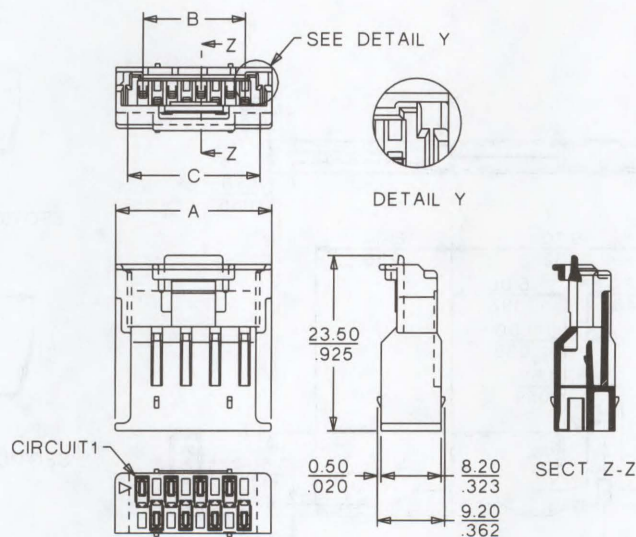


2.00mm (.079") Pitch Mi II System Wire-to-Wire Housing

51206



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	51206-0200	9.30 (.366)	2.00 (.079)	6.10 (.240)
3	51206-0300	11.30 (.445)	4.00 (.157)	8.10 (.319)
4	51206-0400	13.30 (.524)	6.00 (.236)	10.10 (.398)
5	51206-0500	15.30 (.602)	8.00 (.315)	12.10 (.476)
6	51206-0600	17.30 (.681)	10.00 (.394)	14.10 (.555)
7	51206-0700	19.30 (.760)	12.00 (.472)	16.10 (.634)
8	51206-0800	21.30 (.839)	14.00 (.551)	18.10 (.713)
9	51206-0900	23.30 (.917)	16.00 (.630)	20.10 (.791)
10	51206-1000	25.30 (.996)	18.00 (.709)	22.10 (.870)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Long tab-style terminal provides low insertion force and secure contact
- Housing locking window provides secure terminal retention
- High wall design accommodates retainer

Reference Information

Product Specification: Contact Molex

Packaging: Reel or bag

Use With: 51206

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: Phosphor Bronze

Plating: Tin

Wire Range: 22 to 26 AWG

Insulation Diameter: 1.20 to 1.80mm (.047 to .071")

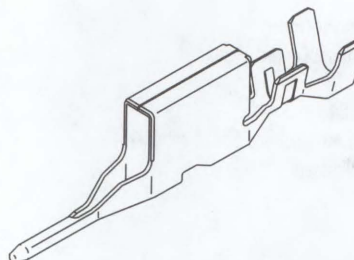
Strip Length: 2.30 to 2.80mm (.091 to .110")

Operating Temperature: -40 to +105°C

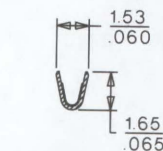
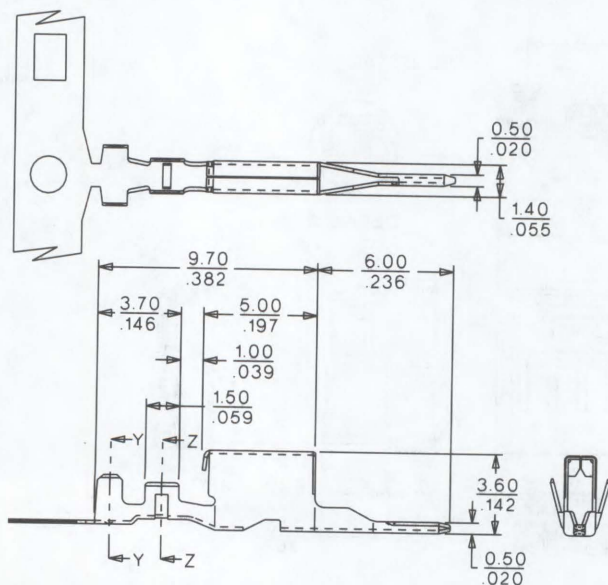


2.00mm (.079") Pitch Mi II System Wire-to-Wire Terminal

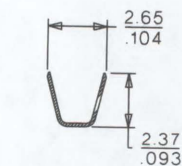
56035



CATALOG DRAWING (FOR REFERENCE ONLY)



SECTION Z-Z



SECTION Y-Y

ORDERING INFORMATION

Order No.	Packaging
56035-8000	Reel
56035-8100	Bag

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits

Reference Information

Packaging: Bag

UL File No.: E29179-K

Mates With: 53324 and 53325

Use With: 50212

Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V

Insulation Resistance: 1000 MΩ min.

Physical

Housing: PBT, UL 94V-0

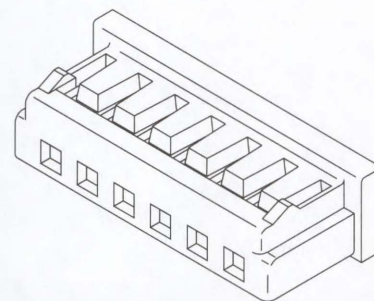
Operating Temperature: -40 to +105°C



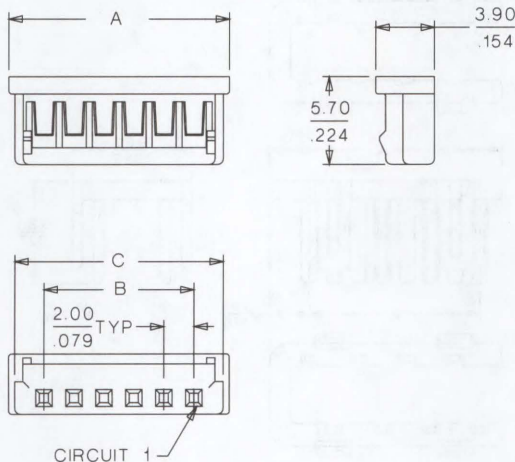
2.00mm (.079") Pitch Mi II System Wire-to-Board Housing

51090

Single Row Crimp



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	51090-0200	6.90 (.272)	2.00 (.079)	6.00 (.236)
3	51090-0300	8.90 (.350)	4.00 (.157)	8.00 (.315)
4	51090-0400	10.90 (.429)	6.00 (.236)	10.00 (.394)
5	51090-0500	12.90 (.508)	8.00 (.315)	12.00 (.472)
6	51090-0600	14.90 (.587)	10.00 (.394)	14.00 (.551)
7	51090-0700	16.90 (.665)	12.00 (.472)	16.00 (.630)
8	51090-0800	18.90 (.744)	14.00 (.551)	18.00 (.709)
9	51090-0900	20.90 (.823)	16.00 (.630)	20.00 (.787)
10	51090-1000	22.90 (.902)	18.00 (.709)	22.00 (.866)
11	51090-1100	24.90 (.980)	20.00 (.787)	24.00 (.945)
12	51090-1200	26.90 (1.059)	22.00 (.866)	26.00 (1.024)
13	51090-1300	28.90 (1.138)	24.00 (.945)	28.00 (1.102)
14	51090-1400	30.90 (1.217)	26.00 (1.024)	30.00 (1.181)
15	51090-1500	32.90 (1.295)	28.00 (1.102)	32.00 (1.260)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 10 circuits
- Provides additional terminal retention
- Snaps easily onto housing

Reference Information

Product Specification: Contact Molex

Packaging: Tray

Use With: 51206

Designed In: Millimeters

Physical

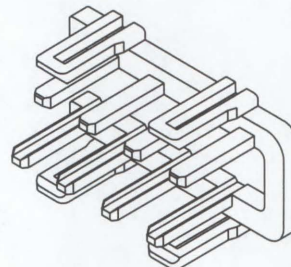
Housing: Gray PBT, UL 94V-0

Operating Temperature: -40 to +105°C



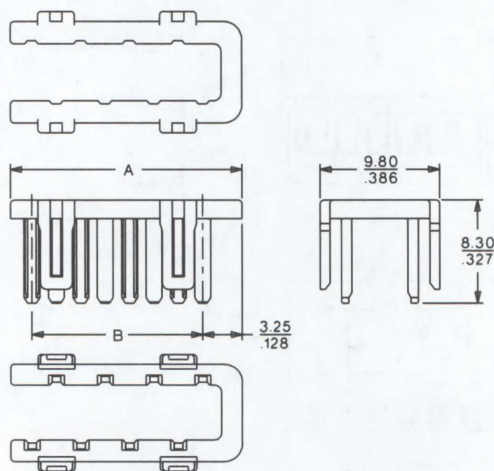
2.00mm (.079") Pitch Mi II System Wire-to-Wire Retainer

58916



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	58916-0205	7.00 (.276)	2.00 (.079)
3	58916-0305	9.00 (.354)	4.00 (.157)
4	58916-0405	11.00 (.433)	6.00 (.236)
5	58916-0505	13.00 (.512)	8.00 (.315)
6	58916-0605	15.00 (.591)	10.00 (.394)
7	58916-0705	17.00 (.669)	12.00 (.472)
8	58916-0805	19.00 (.748)	14.00 (.551)
9	58916-0905	21.00 (.827)	16.00 (.630)
10	58916-1005	23.00 (.906)	18.00 (.709)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 30 circuits
- Joins two single row receptacles (52484) to mate with a dual row header (53313)

Physical

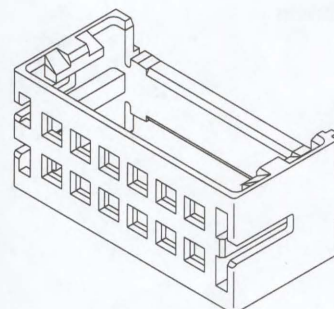
Housing: Gray PBT, UL 94V-0
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch
Mi II System
Clip

51094

Dual Row



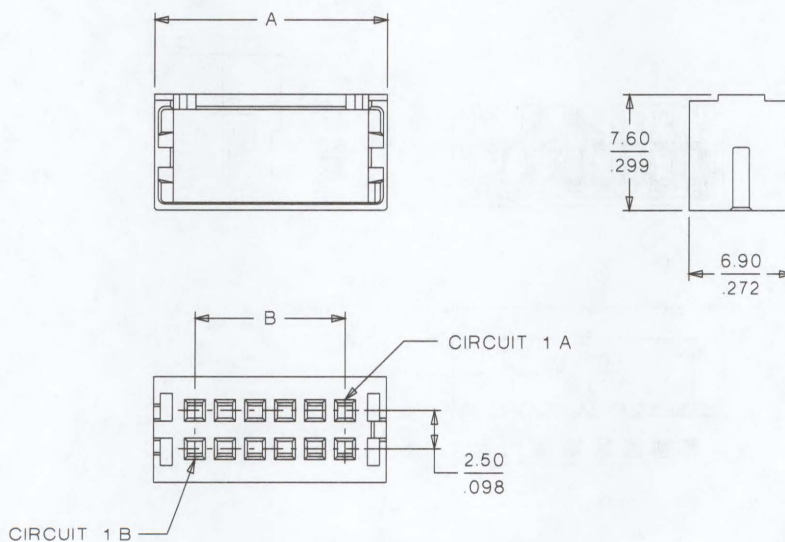
B

2.00 to 2.50mm (.079 to .098") Pitch

Reference Information

Packaging: Bag
CSA File No.: LR19980
Mates With: 53313
Use With: 52484
Designed In: Millimeters

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
6	51094-0605	9.50 (.374)	4.00 (.157)
8	51094-0805	11.50 (.452)	6.00 (.236)
10	51094-1005	13.50 (.531)	8.00 (.315)
12	51094-1205	15.50 (.610)	10.00 (.394)
14	51094-1405	17.50 (.688)	12.00 (.472)
16	51094-1605	19.50 (.767)	14.00 (.551)
18	51094-1805	21.50 (.846)	16.00 (.630)
20	51094-2005	23.50 (.925)	18.00 (.709)
22	51094-2205	25.50 (1.003)	20.00 (.787)
24	51094-2405	27.50 (1.082)	22.00 (.866)
26	51094-2605	29.50 (1.161)	24.00 (.945)
28	51094-2805	31.50 (1.240)	26.00 (1.024)
30	51094-3005	33.50 (1.318)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- IDT provides secure and cost-effective termination

Reference Information

Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 53324, 53325, 53358 and 53313 (with 51094 clip)
 Use With: 51094 clip
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current:

AWG	26	28
Ampere	1.5	1.0

Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 500V
 Insulation Resistance: 1000 MΩ min.

Physical

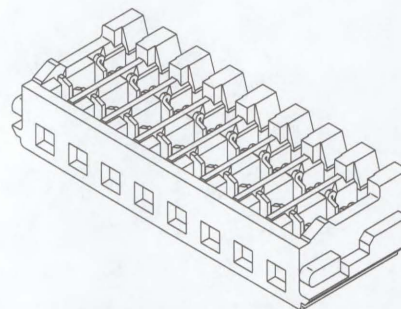
Housing: Glass-filled 6/6 nylon, UL 94V-0
 Contact: Phosphor Bronze
 Plating: Tin
 Wire Range: 26 to 28 AWG
 Insulation Range: 0.85 to 1.05mm dia.
 Operating Temperature: -40 to +105°C



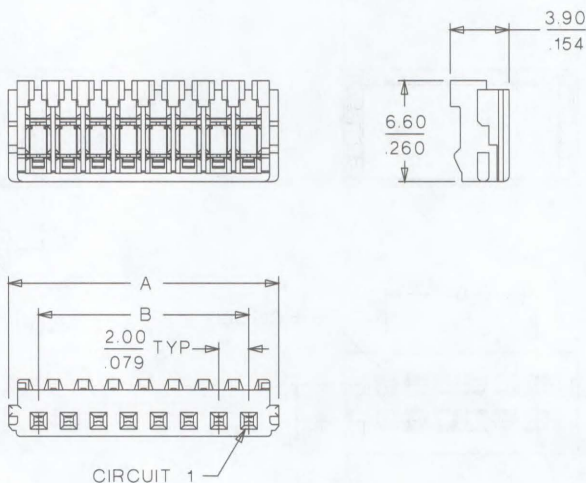
2.00mm (.079") Pitch
Mi II System
Wire-to-Board
Receptacle

52484

Single Row
IDT



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	52484-0210	6.00 (.236)	2.00 (.079)
3	52484-0310	8.00 (.315)	4.00 (.157)
4	52484-0410	10.00 (.394)	6.00 (.236)
5	52484-0510	12.00 (.472)	8.00 (.315)
6	52484-0610	14.00 (.551)	10.00 (.394)
7	52484-0710	16.00 (.630)	12.00 (.472)
8	52484-0810	18.00 (.709)	14.00 (.551)
9	52484-0910	20.00 (.787)	16.00 (.630)
10	52484-1010	22.00 (.866)	18.00 (.709)
11	52484-1110	24.00 (.945)	20.00 (.787)
12	52484-1210	26.00 (1.024)	22.00 (.866)
13	52484-1310	28.00 (1.102)	24.00 (.945)
14	52484-1410	30.00 (1.181)	26.00 (1.024)
15	52484-1510	32.00 (1.260)	28.00 (1.102)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Outer pins are kinked
- Polarization peg ensures proper PCB placement

Reference Information

Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
Mates With: 51090 and 52484
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V
Insulation Resistance: 1000 MΩ min.

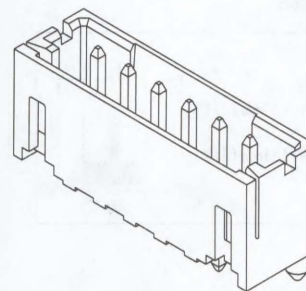
Physical

Housing: Glass-filled PBT, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -40 to +105°C



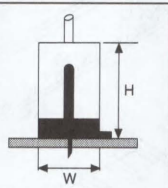
2.00mm (.079") Pitch Mi II System Wire-to-Board Header

53324 Single Row Vertical

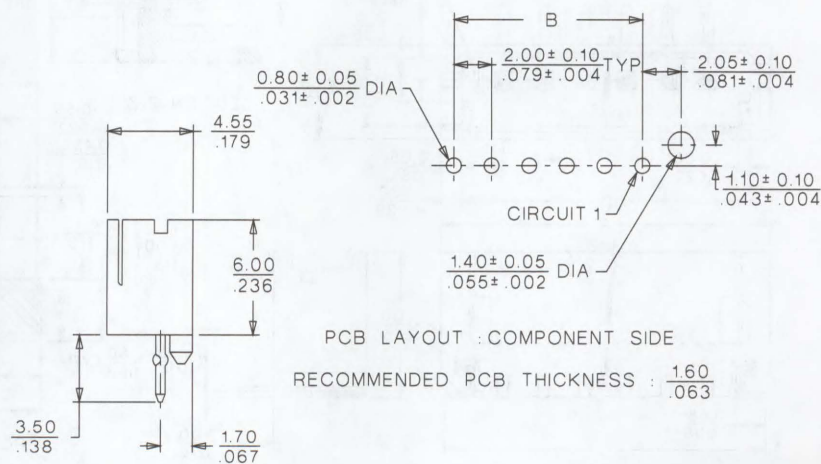
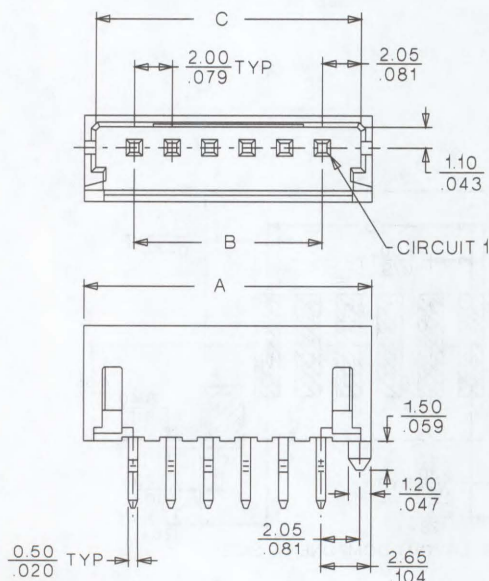


Mating Dimensions

- 53324 • 51090 • 50212
H=7.3mm W=4.55mm
- 53324 • 52484
H=8.2mm W=4.55mm



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	53324-0210	7.30 (.287)	2.00 (.079)	6.10 (.240)
3	53324-0310	9.30 (.366)	4.00 (.157)	8.10 (.319)
4	53324-0410	11.30 (.445)	6.00 (.236)	10.10 (.398)
5	53324-0510	13.30 (.524)	8.00 (.315)	12.10 (.476)
6	53324-0610	15.30 (.602)	10.00 (.394)	14.10 (.555)
7	53324-0710	17.30 (.681)	12.00 (.472)	16.10 (.634)
8	53324-0810	19.30 (.760)	14.00 (.551)	18.10 (.713)
9	53324-0910	21.30 (.839)	16.00 (.630)	20.10 (.791)
10	53324-1010	23.30 (.917)	18.00 (.709)	22.10 (.870)
11	53324-1110	25.30 (.996)	20.00 (.787)	24.10 (.949)
12	53324-1210	27.30 (1.075)	22.00 (.866)	26.10 (1.028)
13	53324-1310	29.30 (1.154)	24.00 (.940)	28.10 (1.106)
14	53324-1410	31.30 (1.232)	26.00 (1.024)	30.10 (1.185)
15	53324-1510	33.30 (1.311)	28.00 (1.102)	32.10 (1.264)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 13 circuits
- Beveled side walls help facilitate mating
- Polarization feature ensures proper mating orientation
- Metal solder tabs provide PCB hold-down and strain-relief for SMT tails
- Long solder area ensures secure solder joints

Reference Information

Product Specification: PS-52484-011

Packaging: Embossed tape

Mates With: 51090 and 52484

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: PPA, UL 94V-0

Contact: Brass

Plating: Tin/Lead over Copper

Solder Tabs: Phosphor Bronze, Tin/Lead over Copper

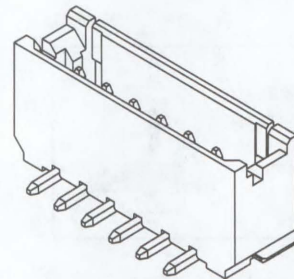
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Mi II System Wire-to-Board Header

55460

**Single Row
Vertical, SMT**



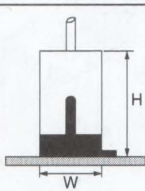
Mating Dimensions

1. 55460/51090/50212

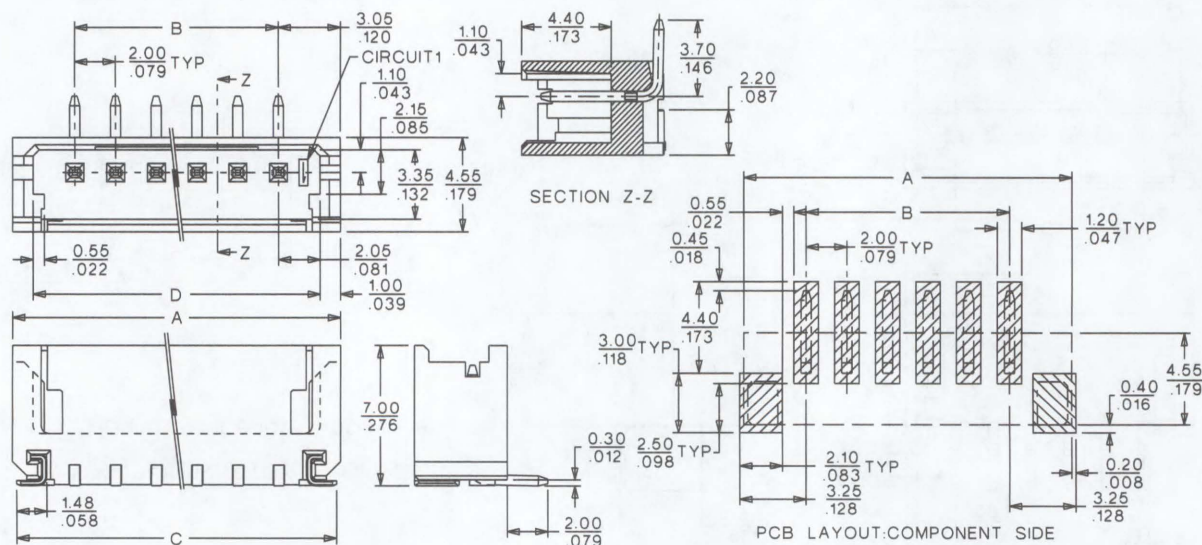
H=8.30mm (.327") W=4.55mm (.179")

2. 55460/52484

H=9.20mm (.362") W=4.55mm (.179")



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension				Carrier Tape Width
		A	B	C	D	
3	55460-0390	10.10 (.398)	4.00 (.157)	9.70 (.382)	8.10 (.319)	24.00 (.945)
4	55460-0490	12.10 (.476)	6.00 (.236)	11.70 (.461)	10.10 (.398)	
5	55460-0590	14.10 (.555)	8.00 (.315)	13.70 (.539)	12.10 (.476)	
7	55460-0790	18.10 (.713)	12.00 (.472)	17.70 (.697)	16.10 (.634)	32.00 (1.260)
12	55460-1290	28.10 (1.106)	22.00 (.866)	27.70 (1.091)	26.10 (1.028)	44.00 (1.732)
13	55460-1390	30.10 (1.185)	24.00 (.945)	29.70 (1.169)	28.10 (1.106)	44.00 (1.732)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 10 to 60 circuits
- Housing lance provides extra terminal retention
- Friction lock on circuits 10 to 28 provides additional mating retention

Reference Information

Packaging: Bag
 CSA File No.: LR 19980
 Mates With: 53313 and 53314
 Use With: 50212
 Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V

Insulation Resistance: 1000 MΩ min.

Physical

Housing: Gray glass-filled PBT, UL 94V-0

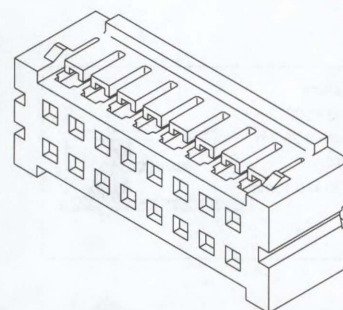
Operating Temperature: -40 to +105°C



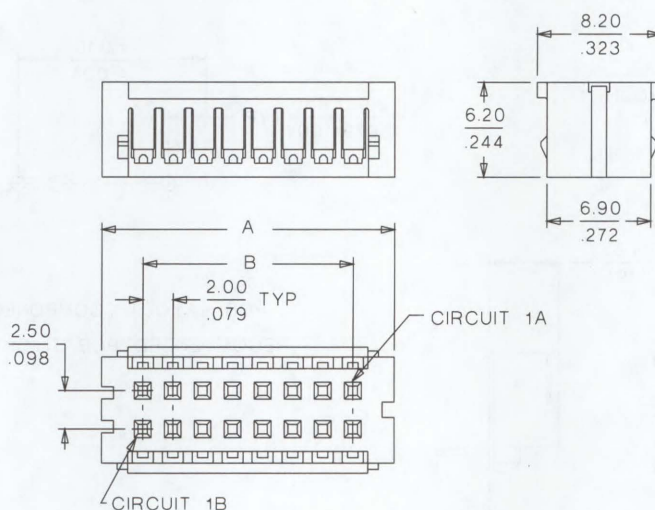
2.00mm (.079") Pitch Mi II System Wire-to-Board Housing

51089

Dual Row Crimp



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		Friction Lock
		A	B	
10	51089-1005	13.50 (.531)	8.00 (.315)	Yes
12	51089-1205	15.50 (.610)	10.00 (.394)	Yes
14	51089-1405	17.50 (.689)	12.00 (.472)	Yes
16	51089-1605	19.50 (.768)	14.00 (.551)	Yes
18	51089-1805	21.50 (.846)	16.00 (.630)	Yes
20	51089-2005	23.50 (.925)	18.00 (.709)	Yes
22	51089-2205	25.50 (1.004)	20.00 (.787)	Yes
24	51089-2405	27.50 (1.083)	22.00 (.866)	Yes
26	51089-2605	29.50 (1.161)	24.00 (.945)	Yes
28	51089-2805	31.50 (1.240)	26.00 (1.024)	Yes
30	51089-3005	33.50 (1.319)	28.00 (1.102)	No
34	51089-3405	37.50 (1.476)	32.00 (1.260)	No
40	51089-4005	43.50 (1.713)	38.00 (1.496)	No
50	51089-5005	53.50 (2.106)	48.00 (1.890)	No
60	51089-6005	63.50 (2.500)	58.00 (2.283)	No

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Outer pins are kinked

Reference Information

Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
Mates With: 51090 and 52484
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V
Insulation Resistance: 1000 MΩ min.

Physical

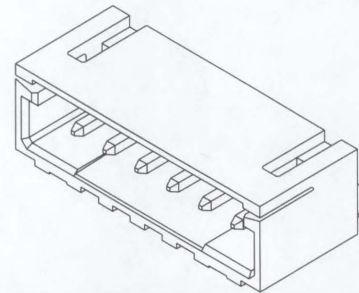
Housing: Glass-filled PBT, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Mi II System Wire-to-Board Header

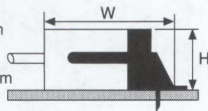
53325

Single Row Right Angle

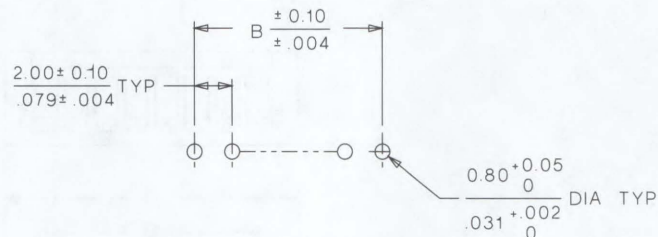
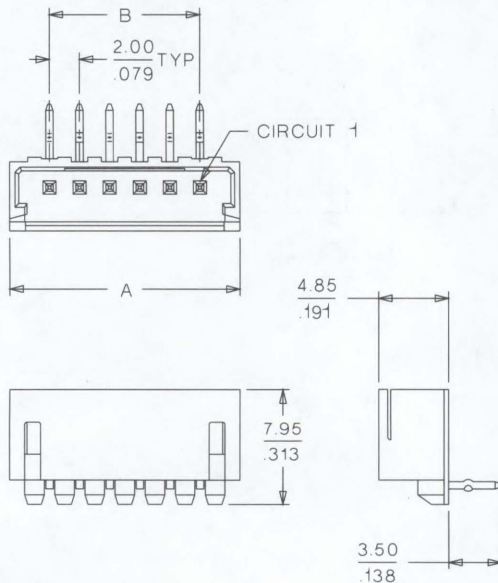


Mating Dimensions

1. 53325 • 51090 • 50212
H=4.85mm W=9.25mm
2. 53324 • 52484
H=4.85mm W=10.15mm



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT : COMPONENT SIDE
RECOMMENDED PCB THICKNESS : $\frac{1.60}{.063}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	53325-0210	7.30 (.287)	2.00 (.079)
3	53325-0310	9.30 (.366)	4.00 (.157)
4	53325-0410	11.30 (.445)	6.00 (.236)
5	53325-0510	13.30 (.524)	8.00 (.315)
6	53325-0610	15.30 (.602)	10.00 (.394)
7	53325-0710	17.30 (.681)	12.00 (.472)
8	53325-0810	19.30 (.760)	14.00 (.551)
9	53325-0910	21.30 (.839)	16.00 (.630)
10	53325-1010	23.30 (.917)	18.00 (.709)
11	53325-1110	25.30 (.996)	20.00 (.787)
12	53325-1210	27.30 (1.075)	22.00 (.866)
13	53325-1310	29.30 (1.154)	24.00 (.940)
14	53325-1410	31.30 (1.232)	26.00 (1.024)
15	53325-1510	33.30 (1.311)	28.00 (1.102)

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 60 circuits
- Polarization peg provides correct PCB placement

Reference Information

Packaging: Tray
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 51089, 52478 and 52484 (with 51094 clip)
 Accepts: 51094 clip with two 52484 IDT receptacles
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 500V
 Insulation Resistance: 1000 MΩ min.

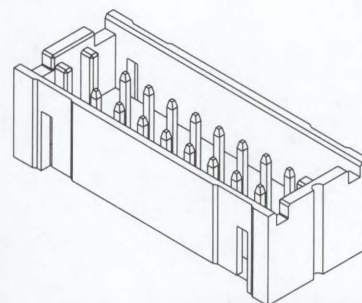
Physical

Housing: Gray glass-filled PBT, UL 94V-0
 Contact: Brass
 Plating: Tin
 Operating Temperature: -40 to +105°C



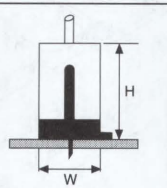
2.00mm (.079") Pitch Mi II System Wire-to-Board Header

53313 Dual Row Vertical

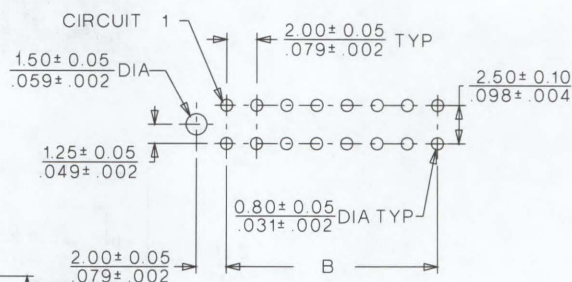
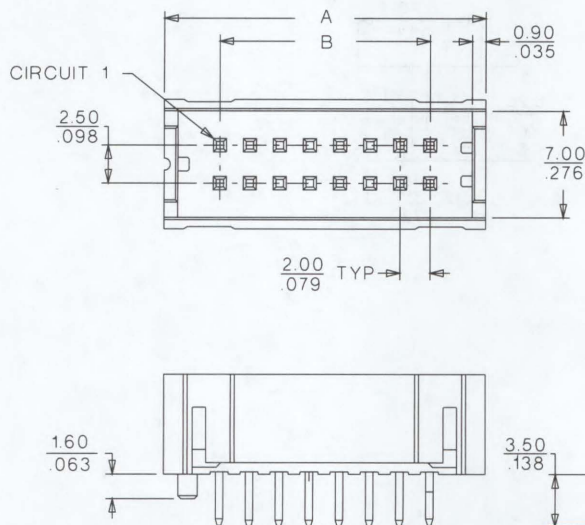


Mating Dimensions

- 53313 • 51089 • 50212
 H=7.8mm W=8.2mm
- 53313 • 52478
 H=7.8mm W=8.2mm



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT : COMPONENT SIDE
 RECOMMENDED PCB THICKNESS : $\frac{1.60 \pm 0.13}{.063 \pm .005}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
6	53313-0615	11.40 (.449)	4.00 (.157)
8	53313-0815	13.40 (.528)	6.00 (.236)
10	53313-1015	15.40 (.606)	8.00 (.315)
12	53313-1215	17.40 (.685)	10.00 (.394)
14	53313-1415	19.40 (.764)	12.00 (.472)
16	53313-1615	21.40 (.843)	14.00 (.551)
18	53313-1815	23.40 (.921)	16.00 (.630)
20	53313-2015	25.40 (1.000)	18.00 (.709)
22	53313-2215	27.40 (1.079)	20.00 (.787)
24	53313-2415	29.40 (1.157)	22.00 (.866)
26	53313-2615	31.40 (1.236)	24.00 (.945)
28	53313-2815	33.40 (1.315)	26.00 (1.024)
30	53313-3015	35.40 (1.394)	28.00 (1.102)
34	53313-3415	39.40 (1.551)	32.00 (1.260)
40	53313-4015	45.40 (1.787)	38.00 (1.496)
50	53313-5015	55.40 (2.181)	48.00 (1.890)
60	53313-6015	65.40 (2.575)	58.00 (2.283)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 10 to 60 circuits
- Friction lock on circuits 10 to 26 provides additional mating retention

Reference Information

Packaging: Tray
CSA File No.: LR19980
Mates With: 53313 and 53314
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	26	28
Amperes	1.5	1.0

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V
Insulation Resistance: 1000 MΩ min.

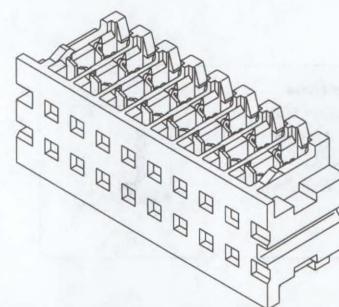
Physical

Housing: Gray glass-filled PBT, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Wire Range: 26 to 28 AWG
Insulation Range: 0.85 to 1.05mm dia.
Operating Temperature: -40 to +105°C

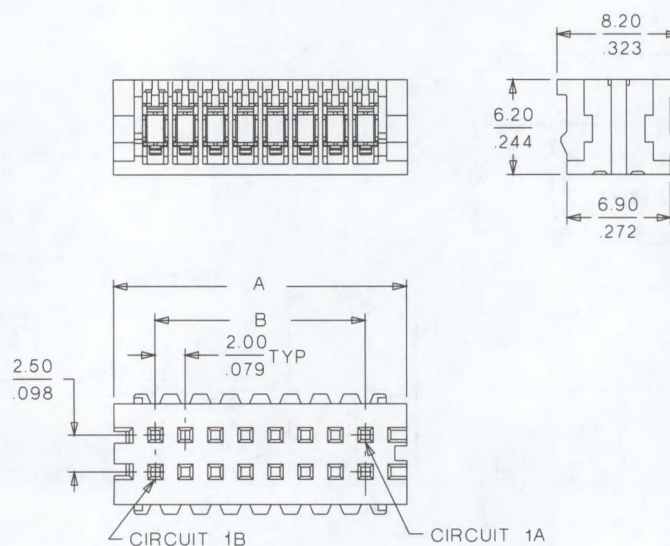


2.00mm (.079") Pitch Mi II System Wire-to-Board Receptacle

52478
**Dual Row
IDT**



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		Friction Lock
		A	B	
10	52478-1015	13.50 (.531)	8.00 (.315)	Yes
12	52478-1215	15.50 (.610)	10.00 (.394)	Yes
14	52478-1415	17.50 (.689)	12.00 (.472)	Yes
16	52478-1615	19.50 (.768)	14.00 (.551)	Yes
18	52478-1815	21.50 (.846)	16.00 (.630)	Yes
20	52478-2015	23.50 (.925)	18.00 (.709)	Yes
22	52478-2215	25.50 (1.004)	20.00 (.787)	Yes
24	52478-2415	27.50 (1.083)	22.00 (.866)	Yes
26	52478-2615	29.50 (1.161)	24.00 (.945)	Yes
28	52478-2815	31.50 (1.240)	26.00 (1.024)	Yes
30	52478-3015	33.50 (1.319)	28.00 (1.102)	No
34	52478-3415	37.50 (1.476)	32.00 (1.260)	No
40	52478-4015	43.50 (1.713)	38.00 (1.496)	No
50	52478-5015	53.50 (2.106)	48.00 (1.890)	No
60	52478-6015	63.50 (2.500)	58.00 (2.283)	No

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 30 to 60 circuits
- Polarization peg provides correct PCB placement

Reference Information

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 51089 and 52478

Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V

Insulation Resistance: 1000 MΩ min.

Physical

Housing: Gray glass-filled PBT, UL 94V-0

Contact: Brass

Plating: Tin

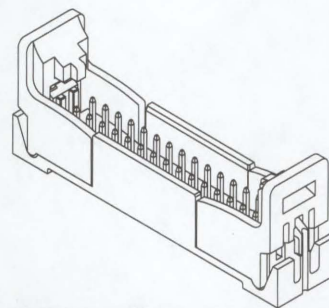
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Mi II System Wire-to-Board Header

53314

Dual Row, Vertical With Eject Levers



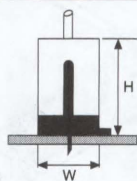
Mating Dimensions

1. 53314 • 51089 • 50212

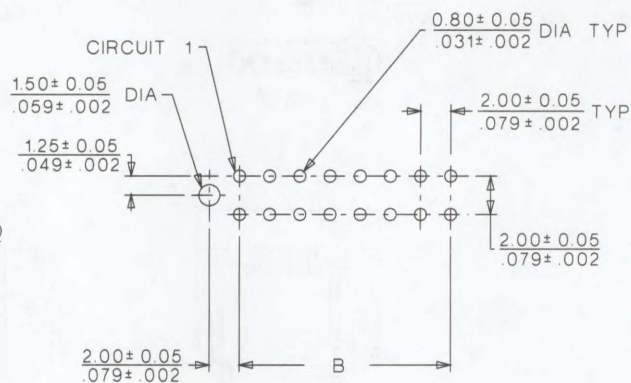
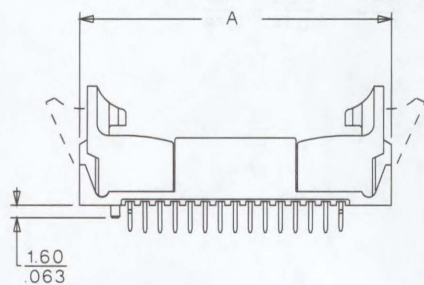
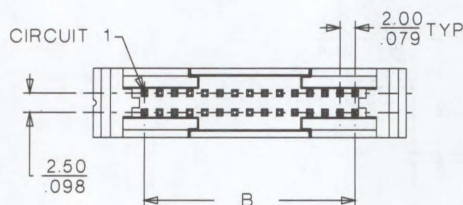
H=15.35mm W=9.0mm

2. 53314 • 52478

H=15.35mm W=9.0mm



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT : COMPONENT SIDE
RECOMMENDED PCB THICKNESS : $\frac{1.60 \pm 0.13}{.063 \pm .005}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
30	53314-3015	41.40 (1.618)	28.00 (1.102)
34	53314-3415	45.40 (1.787)	32.00 (1.260)
40	53314-4015	51.40 (2.024)	38.00 (1.496)
50	53314-5015	61.40 (2.417)	48.00 (1.890)
60	53314-6015	71.40 (2.811)	58.00 (2.283)

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Low insertion force
- Locking feature
- Low profile

Reference Information

Packaging: Bag
Mates With: 51090 and 52484
Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V

Insulation Resistance: 1000 MΩ min.

Physical

Housing: White PBT, UL 94V-0

Contact: Brass

Plating: Tin

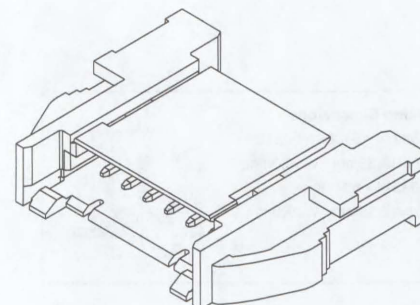
Operating Temperature: -40 to +105°C



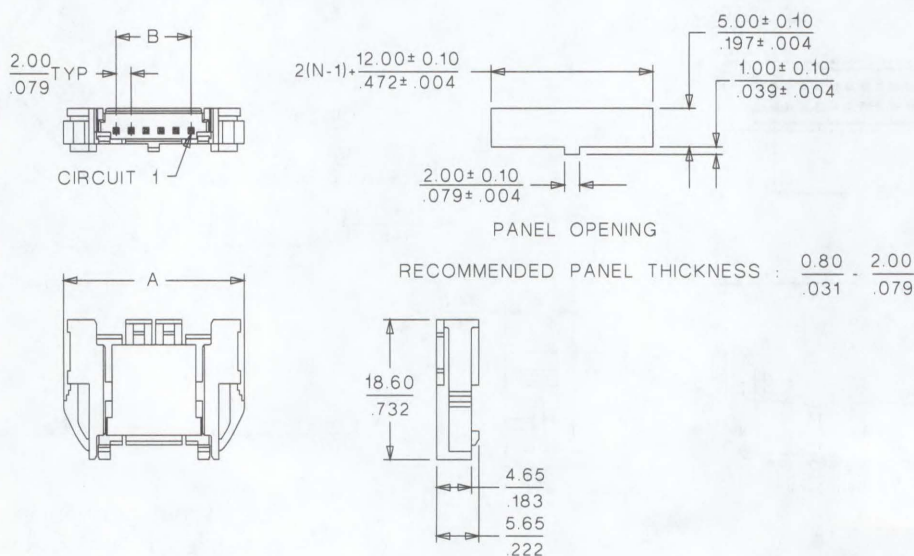
2.00mm (.079") Pitch Mi II System Wire-to-Wire Panel Adapter

53358

Single Row



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	53358-0210	16.10 (.634)	2.00 (.079)
3	53358-0310	18.10 (.713)	4.00 (.157)
4	53358-0410	20.10 (.791)	6.00 (.236)
5	53358-0510	22.10 (.870)	8.00 (.315)
6	53358-0610	24.10 (.949)	10.00 (.394)
7	53358-0710	26.10 (1.028)	12.00 (.472)
8	53358-0810	28.10 (1.106)	14.00 (.551)
9	53358-0910	30.10 (1.185)	16.00 (.630)
10	53358-1010	32.10 (1.264)	18.00 (.709)
11	53358-1110	34.10 (1.343)	20.00 (.787)
12	53358-1210	36.10 (1.421)	22.00 (.866)
13	53358-1310	38.10 (1.500)	24.00 (.945)
14	53358-1410	40.10 (1.579)	26.00 (1.024)
15	53358-1510	42.10 (1.657)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Wire range: 26 to 28 AWG
- Strip length: 0.85 to 1.05mm

Reference Information

Packaging: Tray
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.5A
Contact Resistance: 10mΩ max.
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance: 1000MΩ min.

Physical

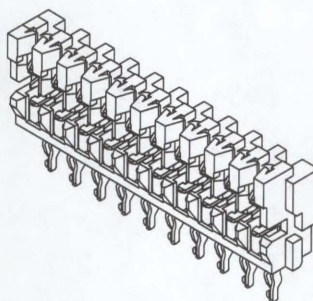
Housing: Blue glass-filled nylon 6/6, UL 94V-0
Terminal: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Mi II System Board-In Connector

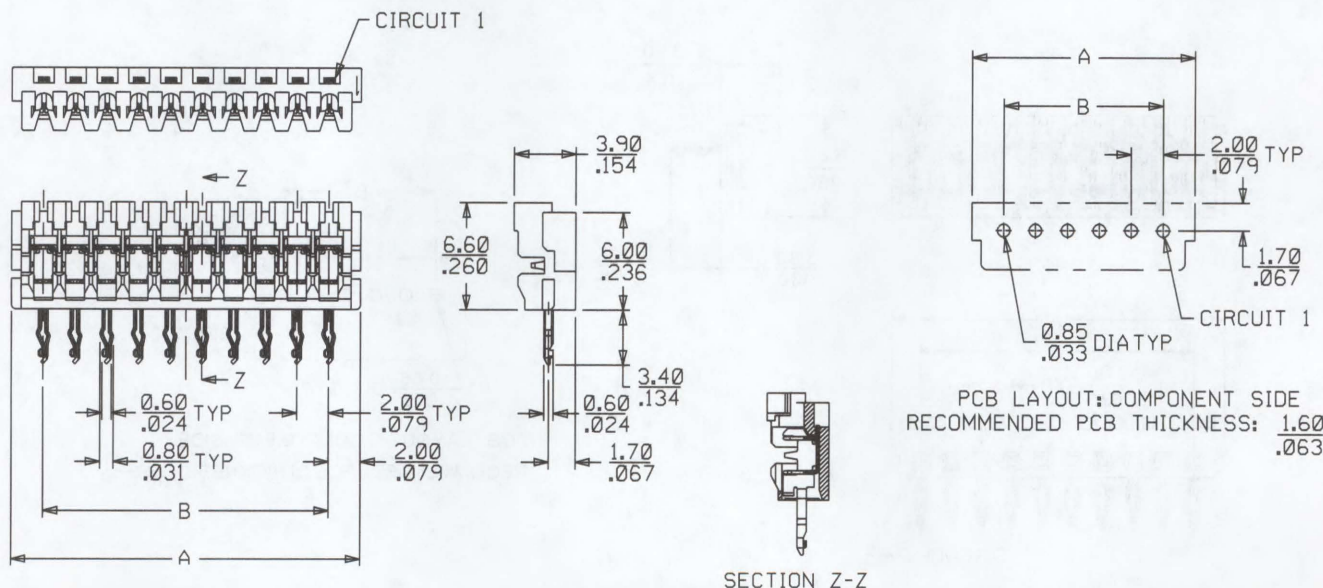
52691

Vertical



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	52691-0214	6.00 (.236)	2.00 (.079)
3	52691-0314	8.00 (.315)	4.00 (.157)
4	52691-0414	10.00 (.394)	6.00 (.236)
5	52691-0514	12.00 (.472)	8.00 (.315)
6	52691-0614	14.00 (.551)	10.00 (.394)
7	52691-0714	16.00 (.630)	12.00 (.472)
8	52691-0814	18.00 (.709)	14.00 (.551)
9	52691-0914	20.00 (.787)	16.00 (.630)
10	52691-1014	22.00 (.866)	18.00 (.709)
11	52691-1114	24.00 (.945)	20.00 (.787)
12	52691-1214	26.00 (1.024)	22.00 (.866)
13	52691-1314	28.00 (1.102)	24.00 (.945)
14	52691-1414	30.00 (1.181)	26.00 (1.024)
15	52691-1514	32.00 (1.260)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Low profile height of 3.90mm
- 26 to 28 AWG
- Strip length: 0.85 to 1.05mm

Reference Information

Packaging: Bag
Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	26	28
Amperes	1.5	1.0

Contact Resistance: 10mΩ max.

Dielectric Withstanding Voltage: 500V

Insulation Resistance: 1000 MΩ min.

Physical

Housing: Blue glass-filled 6/6 nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: Tin

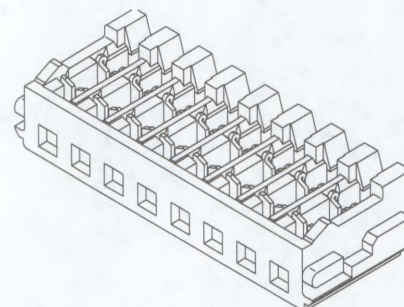
Operating Temperature: -40 to +105°C



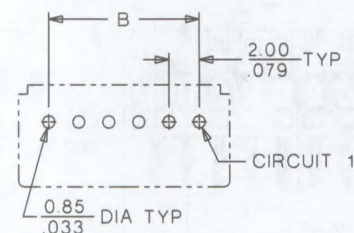
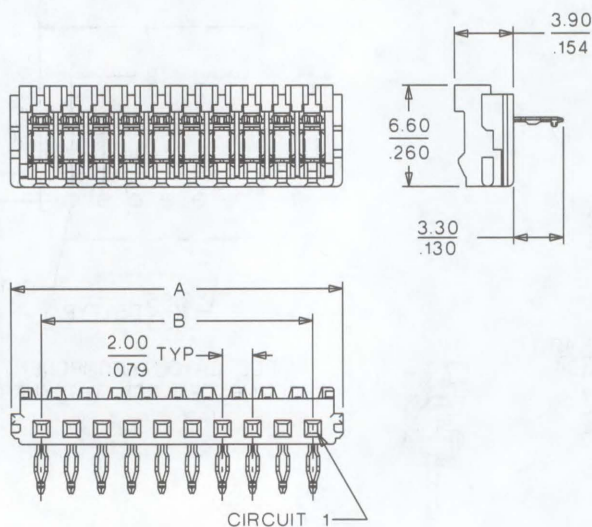
2.00mm (.079") Pitch Mi II System Board-In Connector

52693

**Single Row
Right Angle**



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT : COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 1.60 (063)

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	52693-0214	6.00 (.236)	2.00 (.079)
3	52693-0314	8.00 (.315)	4.00 (.157)
4	52693-0414	10.00 (.394)	6.00 (.236)
5	52693-0514	12.00 (.472)	8.00 (.315)
6	52693-0614	14.00 (.551)	10.00 (.394)
7	52693-0714	16.00 (.630)	12.00 (.472)
8	52693-0814	18.00 (.709)	14.00 (.551)
9	52693-0914	20.00 (.787)	16.00 (.630)
10	52693-1014	22.00 (.866)	18.00 (.709)
11	52693-1114	24.00 (.945)	20.00 (.787)
12	52693-1214	26.00 (1.024)	22.00 (.866)
13	52693-1314	28.00 (1.102)	24.00 (.945)
14	52693-1414	30.00 (1.181)	26.00 (1.024)
15	52693-1514	32.00 (1.260)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Locking tang for secure housing retention

Reference Information

Packaging: Reel or bag

Use With: 51006

Mates With: 50013

Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	24	26	28
Amperes	2.0	1.5	1.0

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: Phosphor Bronze

Plating: Tin

Wire Range: 24 to 28 AWG

Insulation Diameter: 1.15mm dia. max.

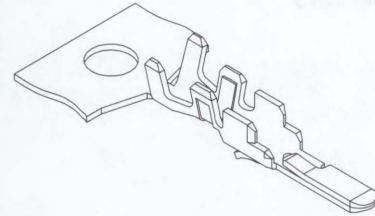
Strip Length: 1.70 to 2.30mm



2.00mm (.079") Pitch Wire-To-Wire Crimp Terminal

50012

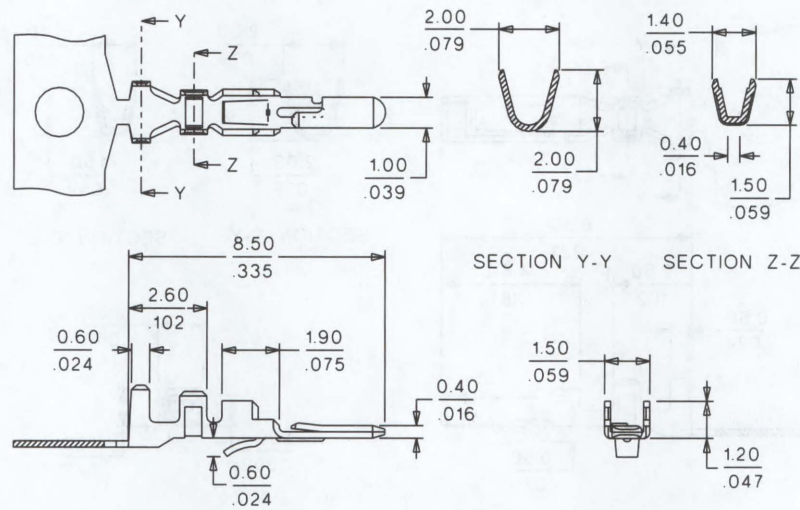
Male



B

2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Terminal
50012-8000	Reel
50012-8100	Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Spring beam design provides high pressure and small deflection for high vibration applications
- Locking tang for secure housing retention

Reference Information

Packaging: Reel or bag
Use With: 51005
Mates With: 50012
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28
Amperes	2.0	1.5	1.0

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

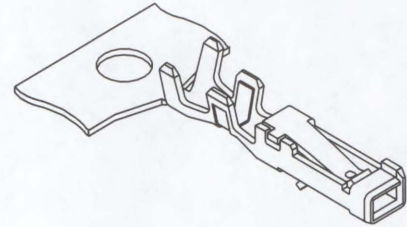
Contact: Phosphor Bronze
Plating: Tin
Wire Range: 24 to 28 AWG
Insulation Diameter: 1.15mm dia. max.
Strip Length: 1.70 to 2.30mm



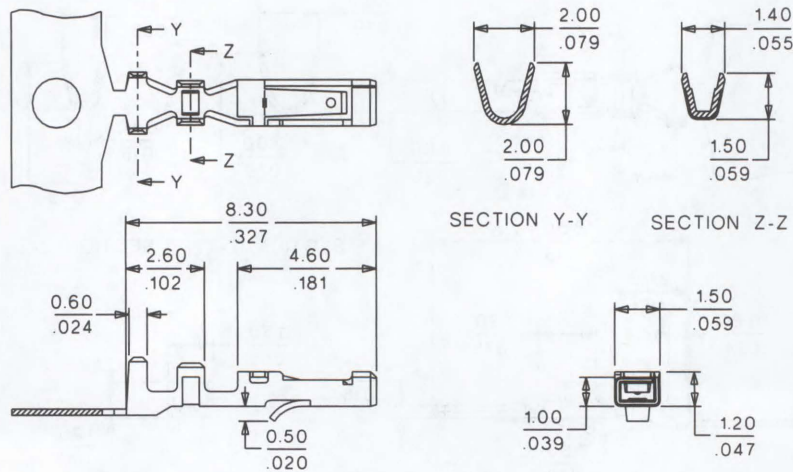
2.00mm (.079") Pitch Wire-to-Wire Crimp Terminal

50013

Female



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Terminal
50013-8000	Reel
50013-8100	Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 10 circuits
- Very thin design

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 51005
Use With: 50012
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28
Amperes	2.0	1.5	1.0

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

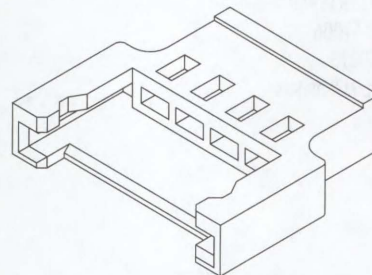
Physical

Housing: PBTP, UL 94V-0
Operating Temperature: -40 to +105°C



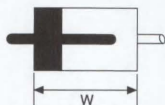
2.00mm (.079") Pitch
Wire-to-Wire
Plug

51006

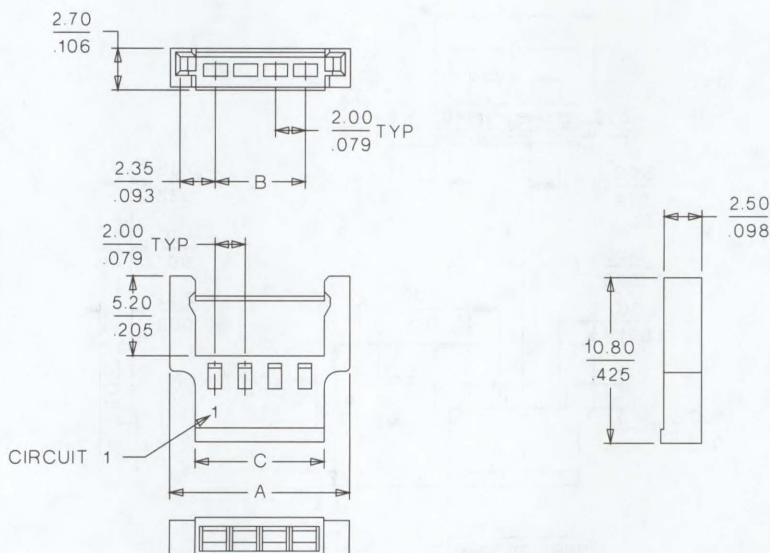


Mating Dimensions

51006 • 50012 • 51005 • 50013
W=14.8mm



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	51006-0200	8.00 (.315)	2.00 (.079)	4.60 (.181)
3	51006-0300	10.00 (.394)	4.00 (.157)	6.60 (.260)
4	51006-0400	12.00 (.472)	6.00 (.236)	8.60 (.339)
5	51006-0500	14.00 (.551)	8.00 (.314)	10.60 (.417)
6	51006-0600	16.00 (.630)	10.00 (.393)	12.60 (.496)
7	51006-0700	18.00 (.709)	12.00 (.472)	14.60 (.575)
8	51006-0800	20.00 (.787)	14.00 (.551)	16.60 (.654)
9	51006-0900	22.00 (.866)	16.00 (.629)	18.60 (.732)
10	51006-1000	24.00 (.945)	18.00 (.708)	20.60 (.811)

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 10 circuits
- Very thin design

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 51006
Use With: 50013
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28
Amperes	2.0	1.5	1.0

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

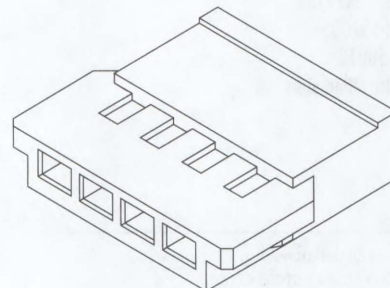
Physical

Housing: PBTP, UL 94V-0
Operating Temperature: -40 to +105°C

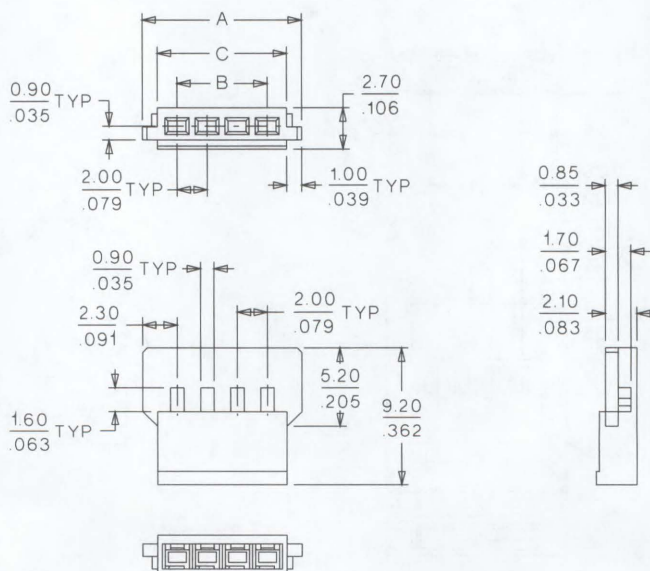


2.00mm (.079") Pitch Wire-to-Wire Receptacle

51005



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	51005-0200	6.60 (.260)	2.00 (.079)	4.60 (.181)
3	51005-0300	8.60 (.339)	4.00 (.157)	6.60 (.260)
4	51005-0400	10.60 (.417)	6.00 (.236)	8.60 (.339)
5	51005-0500	12.60 (.496)	8.00 (.314)	10.60 (.417)
6	51005-0600	14.60 (.575)	10.00 (.393)	12.60 (.496)
7	51005-0700	16.60 (.654)	12.00 (.472)	14.60 (.575)
8	51005-0800	18.60 (.732)	14.00 (.551)	16.60 (.654)
9	51005-0900	20.60 (.811)	16.00 (.629)	18.60 (.732)
10	51005-1000	22.60 (.890)	18.00 (.708)	20.60 (.811)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Locking tang provides terminal retention to housing

Reference Information

Packaging: Reel or bag

Use With: 35507, 51065, 51089, 51090 and 87369 housings

Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: Phosphor Bronze

Plating: Tin

Wire Range: 24 to 30 AWG

Insulation Range: 1.40mm dia. max.

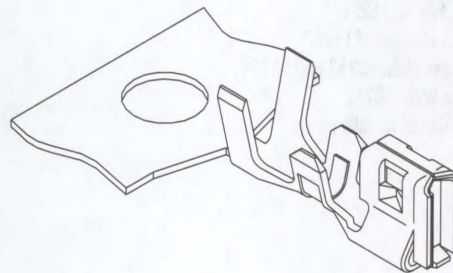
Strip Length: 1.3 to 1.8mm

Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Wire-to-Board Crimp Terminal

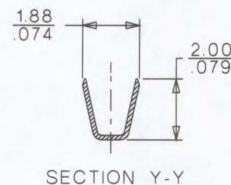
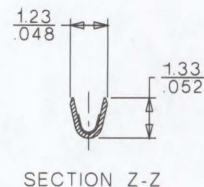
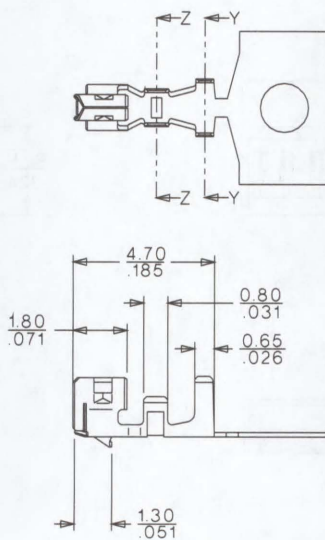
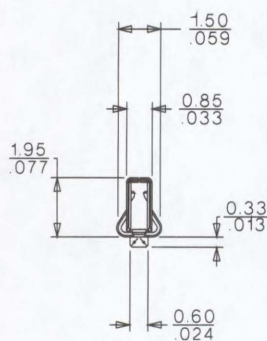
50212



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Terminal
50212-8000	Reel
50212-8100	Bag

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Housing lance provides extra terminal retention
- Friction lock provides secure mating

Reference Information

Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 53253 and 53254
 Use With: 50212
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 500V AC
 Insulation Resistance: 1000 MΩ min.

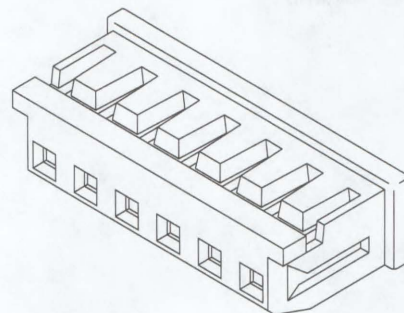
Physical

Housing: PBTP, UL 94V-0
 Operating Temperature: -40 to +85°C

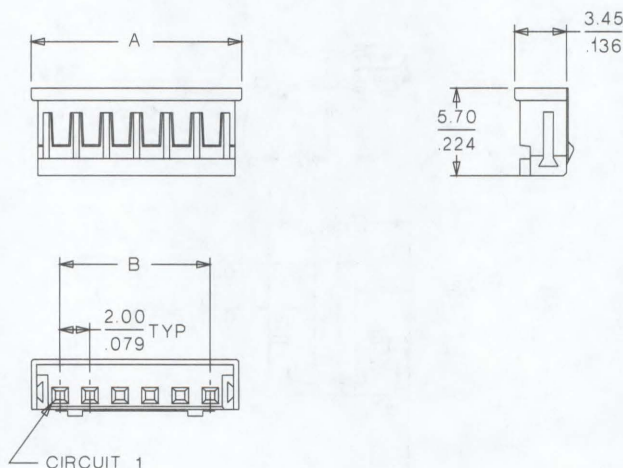


2.00mm (.079") Pitch Wire-to-Board Housing

51065



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	51065-0200	5.80 (.228)	2.00 (.079)
3	51065-0300	7.80 (.307)	4.00 (.157)
4	51065-0400	9.80 (.386)	6.00 (.236)
5	51065-0500	11.80 (.465)	8.00 (.314)
6	51065-0600	13.80 (.543)	10.00 (.393)
7	51065-0700	15.80 (.622)	12.00 (.472)
8	51065-0800	17.80 (.701)	14.00 (.551)
9	51065-0900	19.80 (.780)	16.00 (.629)
10	51065-1000	21.80 (.858)	18.00 (.708)
11	51065-1100	23.80 (.937)	20.00 (.787)
12	51065-1200	25.80 (1.016)	22.00 (.866)
13	51065-1300	27.80 (1.094)	24.00 (.944)
14	51065-1400	29.80 (1.173)	26.00 (1.023)
15	51065-1500	31.80 (1.252)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows provide secure mating

Reference Information

Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
Mates With: 51065
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

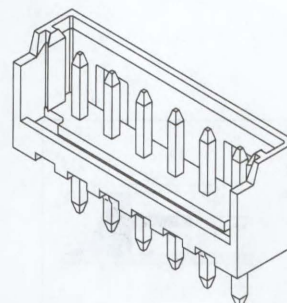
Housing: 6/6 nylon, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -20 to +85°C



2.00mm (.079") Pitch Wire-to-Board Header

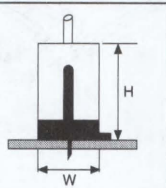
53253

Vertical

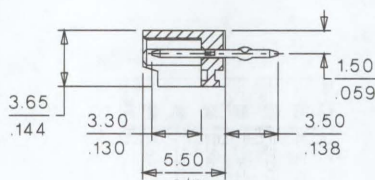
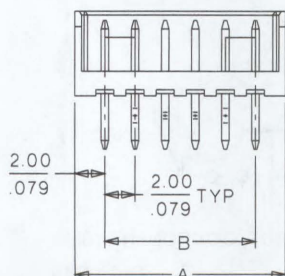
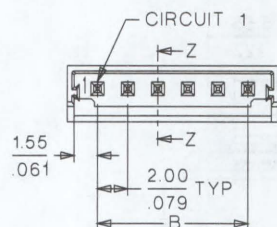


Mating Dimensions

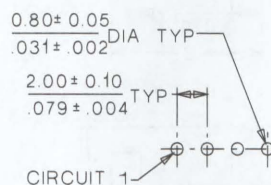
53253 • 51065 • 50212
H=7.3mm W=4.0mm



CATALOG DRAWING (FOR REFERENCE ONLY)



SECTION Z-Z



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: 1.60 ± 0.10
 $.063 \pm .004$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	53253-0210	6.00 (.236)	2.00 (.079)
3	53253-0310	8.00 (.315)	4.00 (.157)
4	53253-0410	10.00 (.394)	6.00 (.236)
5	53253-0510	12.00 (.472)	8.00 (.315)
6	53253-0610	14.00 (.551)	10.00 (.394)
7	53253-0710	16.00 (.630)	12.00 (.472)
8	53253-0810	18.00 (.709)	14.00 (.551)
9	53253-0910	20.00 (.787)	16.00 (.630)
10	53253-1010	22.00 (.866)	18.00 (.709)
11	53253-1110	24.00 (.945)	20.00 (.787)
12	53253-1210	26.00 (1.024)	22.00 (.866)
13	53253-1310	28.00 (1.102)	24.00 (.945)
14	53253-1410	30.00 (1.181)	26.00 (1.024)
15	53253-1510	32.00 (1.260)	28.00 (1.102)

Circuits	Kink Position							
	1	2	3	4	5	N-2	N-1	N
3	x	x	x					
4	x	x	x	x				
5	x	x		x	x			
more than 6		x	x			x	x	

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows provide secure mating

Reference Information

Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
Mates With: 51065
Designed In: Millimeters

Electrical

Voltage: 125V
Current

AWG	24	26	28	30
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

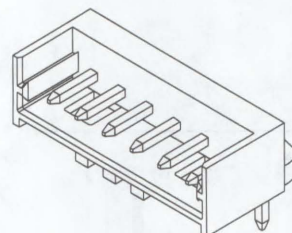
Housing: 6/6 nylon, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -20 to +85°C



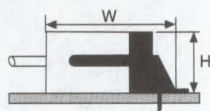
2.00mm (.079") Pitch Wire-to-Board Header

53254

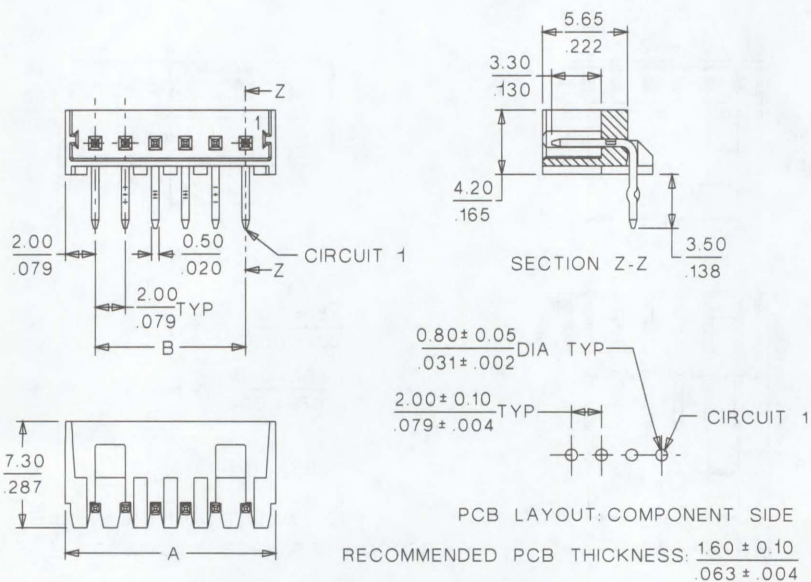
Right Angle



Mating Dimensions
53254 • 51065 • 50212
H=4.55mm W=9.1mm



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	53254-0210	6.00 (.236)	2.00 (.079)
3	53254-0310	8.00 (.315)	4.00 (.157)
4	53254-0410	10.00 (.394)	6.00 (.236)
5	53254-0510	12.00 (.472)	8.00 (.315)
6	53254-0610	14.00 (.551)	10.00 (.394)
7	53254-0710	16.00 (.630)	12.00 (.472)
8	53254-0810	18.00 (.709)	14.00 (.551)
9	53254-0910	20.00 (.787)	16.00 (.630)
10	53254-1010	22.00 (.866)	18.00 (.709)
11	53254-1110	24.00 (.945)	20.00 (.787)
12	53254-1210	26.00 (1.024)	22.00 (.866)
13	53254-1310	28.00 (1.102)	24.00 (.945)
14	53254-1410	30.00 (1.181)	26.00 (1.024)
15	53254-1510	32.00 (1.260)	28.00 (1.102)

Circuits	Kink Position							
	1	2	3	4	5	N-2	N-1	N
3	x	x	x					
4	x	x	x	x				
5	x	x		x	x			
more than 6		x	x			x	x	

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 16 circuits
- Two friction locks
- Positive polarization
- Pull tab for easy insertion/extraction

Reference Information

Product Specification: PS-87369
Packaging: Tube or tape and reel
Accepts: 50212 crimp terminal
Mates With: 89400 and 89401 single row headers
Designed In: Millimeters

Electrical

Voltage: 250V AC
Current: 2.0A max.
Contact Resistance: 40mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 1kg max.
Contact Retention to Housing: 1kg min.
Wire Pull-Out Force: 3kg max.
Durability: 30 cycles

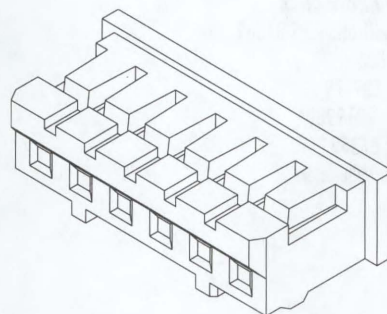
Physical

Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Operating Temperature: -25 to +85°C

molex® 2.00mm (.079") Pitch Wire-to-Board Crimp Housing

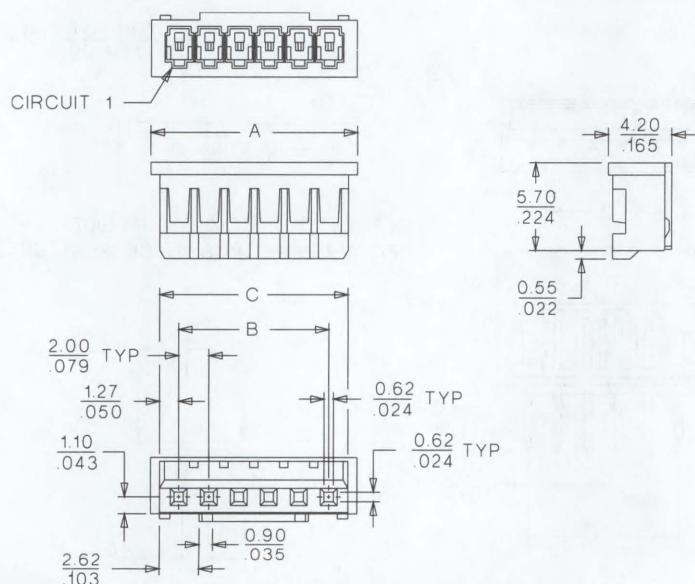
87369

Single Row



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	87369-020X	5.74 (.226)	2.00 (.079)	4.54 (.179)
3	87369-030X	7.74 (.305)	4.00 (.157)	6.54 (.257)
4	87369-040X	9.74 (.383)	6.00 (.236)	8.54 (.336)
5	87369-050X	11.74 (.462)	8.00 (.315)	10.54 (.415)
6	87369-060X	13.74 (.541)	10.00 (.394)	12.54 (.494)
7	87369-070X	15.74 (.620)	12.00 (.472)	14.54 (.572)
8	87369-080X	17.74 (.698)	14.00 (.551)	16.54 (.651)
9	87369-090X	19.74 (.777)	16.00 (.630)	18.54 (.730)
10	87369-100X	21.74 (.856)	18.00 (.709)	20.54 (.809)
11	87369-110X	23.74 (.935)	20.00 (.787)	22.54 (.887)
12	87369-120X	25.74 (1.013)	22.00 (.866)	24.54 (.966)
13	87369-130X	27.74 (1.092)	24.00 (.945)	26.54 (1.045)
14	87369-140X	29.74 (1.171)	26.00 (1.024)	28.54 (1.124)
15	87369-150X	31.74 (1.250)	28.00 (1.102)	30.54 (1.202)
16	87369-160X	33.74 (1.328)	30.00 (1.181)	32.54 (1.281)

Replace X with color option (0 to 5)

0	Natural
1	Black
2	Red
3	Yellow
4	Blue
5	Green

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits for standard version; sizes 2 to 15 circuits for coined version
- Latch windows retain positive locks after mating
- Standoffs minimize flux retention
- Coined version available for positive pin retention to header
- For other color options, contact Molex

Reference Information

Product Specification: PS-87369
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980A
 Mates With: 87369
 Designed In: Millimeters

Electrical

Voltage: 250V
 Current: 4.0A
 Contact Resistance: 40mΩ max.
 Dielectric Withstanding Voltage: 500V AC/1 min.
 Insulation Resistance: 1000 MΩ min.

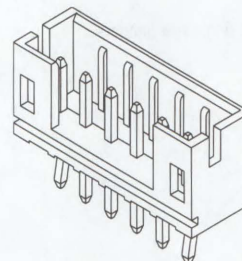
Physical

Housing: Thermoplastic, UL 94V-0
 Contact: Brass
 Plating: Tin
 Operating Temperature: -25 to +85°C

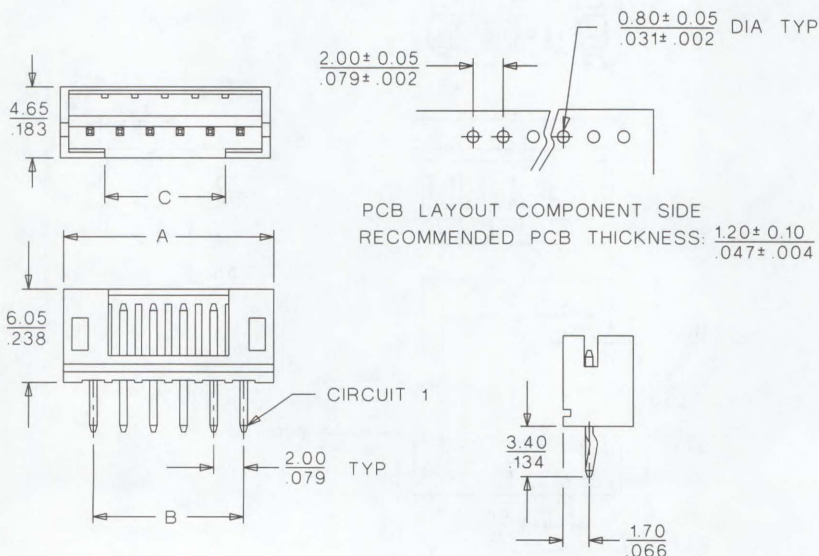
molex® 2.00mm (.079") Pitch Wire-to-Board Header

89400

Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension		
	Standard	Coined	A	B	C
2	89400-021X	89400-022X	6.00 (.236)	2.00 (.079)	0.75 (.029)
3	89400-031X	89400-032X	8.00 (.314)	4.00 (.157)	2.00 (.079)
4	89400-041X	89400-042X	10.00 (.393)	6.00 (.236)	4.00 (.157)
5	89400-051X	89400-052X	12.00 (.472)	8.00 (.314)	6.00 (.236)
6	89400-061X	89400-062X	14.00 (.551)	10.00 (.393)	8.00 (.314)
7	89400-071X	89400-072X	16.00 (.629)	12.00 (.472)	10.00 (.393)
8	89400-081X	89400-082X	18.00 (.708)	14.00 (.551)	12.00 (.472)
9	89400-091X	89400-092X	20.00 (.787)	16.00 (.629)	14.00 (.551)
10	89400-101X	89400-102X	22.00 (.866)	18.00 (.708)	16.00 (.629)
11	89400-111X	89400-112X	24.00 (.944)	20.00 (.787)	18.00 (.708)
12	89400-121X	89400-122X	26.00 (1.023)	22.00 (.866)	20.00 (.787)
13	89400-131X	89400-132X	28.00 (1.102)	24.00 (.944)	22.00 (.866)
14	89400-141X	89400-142X	30.00 (1.181)	26.00 (1.023)	24.00 (.944)
15	89400-151X	89400-152X	32.00 (1.259)	28.00 (1.102)	26.00 (1.023)
16	89400-161X	89400-162X	34.00 (1.339)	30.00 (1.181)	28.00 (1.102)

Replace X with color option (0 to 6)	
0	Natural
1	Black
2	Red
3	Yellow
4	Blue
6	Green

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 16 circuits
- Latch windows retain positive locks after mating
- Standoffs minimize flux retention
- Coined version for positive pin retention to header

Reference Information

Product Specification: PS-89369
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980A
 Mates With: 87369
 Designed In: Millimeters

Electrical

Voltage: 250V
 Current: 4.0A
 Contact Resistance: 40mΩ max.
 Dielectric Withstanding Voltage: 500V AC/1 min.
 Insulation Resistance: 1000 MΩ min.

Physical

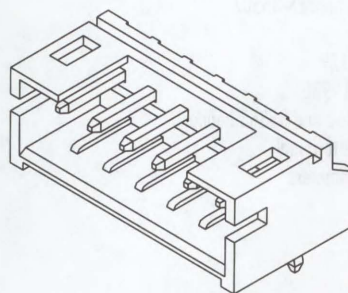
Housing: Natural 6/6 nylon, UL 94V-0
 Contact: Brass
 Plating: Tin
 Operating Temperature: -25 to +85°C



**2.00mm (.079") Pitch
 Wire-to-Board
 Header**

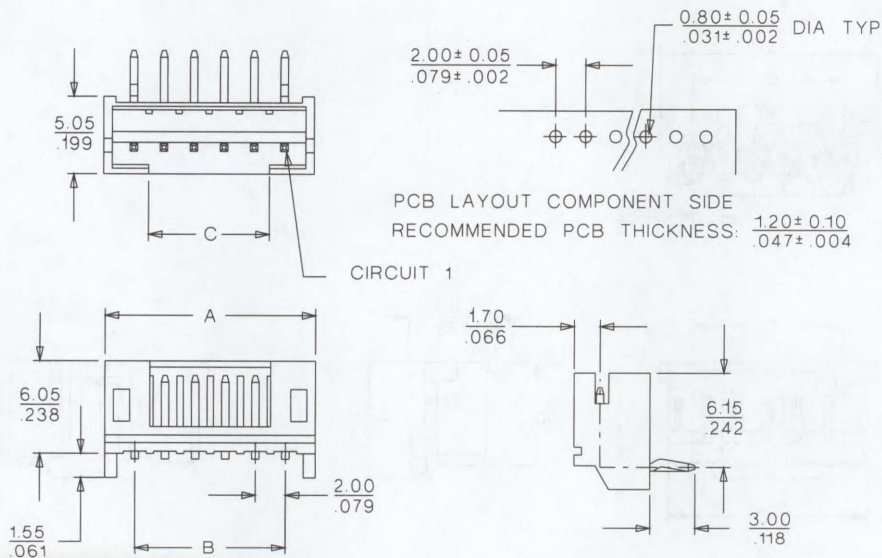
89401

Right Angle



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No. Coined Version	Dimension		
		A	B	C
2	89401-021X	6.00 (.236)	2.00 (.079)	0.75 (.029)
3	89401-031X	8.00 (.314)	4.00 (.157)	2.00 (.079)
4	89401-041X	10.00 (.393)	6.00 (.236)	4.00 (.157)
5	89401-051X	12.00 (.472)	8.00 (.314)	6.00 (.236)
6	89401-061X	14.00 (.551)	10.00 (.393)	8.00 (.314)
7	89401-071X	16.00 (.629)	12.00 (.472)	10.00 (.393)
8	89401-081X	18.00 (.708)	14.00 (.551)	12.00 (.472)
9	89401-091X	20.00 (.787)	16.00 (.629)	14.00 (.551)
10	89401-101X	22.00 (.866)	18.00 (.708)	16.00 (.629)
11	89401-111X	24.00 (.944)	20.00 (.787)	18.00 (.708)
12	89401-121X	26.00 (1.023)	22.00 (.866)	20.00 (.787)
13	89401-131X	28.00 (1.102)	24.00 (.944)	22.00 (.866)
14	89401-141X	30.00 (1.181)	26.00 (1.023)	24.00 (.944)
15	89401-151X	32.00 (1.259)	28.00 (1.102)	26.00 (1.023)
16	89401-161X	34.00 (1.339)	30.00 (1.181)	28.00 (1.102)

Replace X with color option (0 to 7)	
0	Natural
2	Red
3	Yellow
4	Blue
6	Green
7	Black

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 and 20 circuits
- Positive lock latch provides secure mating retention
- Housing lance ensures good terminal retention
- Compact low-profile design for space savings
- Polarizing end walls prevent mismatching
- Five color choices for circuit identification

Reference Information

Product Specification: PS-35507
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 35362 and 35363 headers
 Use With: 50212 terminal
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 2.0A max.
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 500V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 9.8N (2.2 lb) max.
 Contact Retention to Housing: 14.7N (3.3 lb) min.
 Mating Force: 5 circuits—58.8N (13.2 lb)
 Unmating Force: 5 circuits—3.3N (0.7 lb)
 Durability: 30 cycles

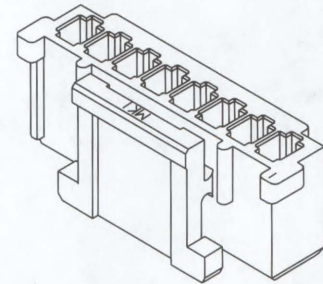
Physical

Housing: Polyester, UL 94V-0
 Operating Temperature: -40 to +105°C

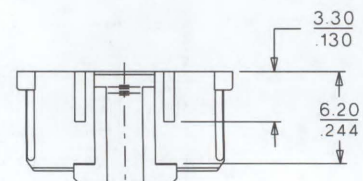
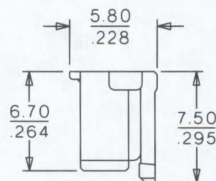
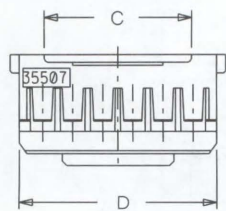
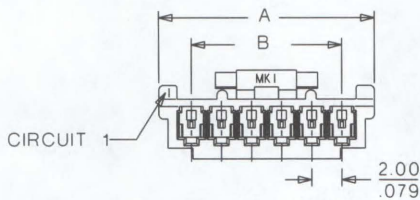


2.00mm (.079") Pitch Sherlock™ Wire-to-Board Housing

35507



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension			
		A	B	C	D
2	35507-0200	7.20 (.283)	2.00 (.079)	1.70 (.067)	5.10 (.201)
3	35507-0300	9.20 (.362)	4.00 (.157)	2.50 (.098)	7.10 (.280)
4	35507-0400	10.30 (.406)	6.00 (.236)	5.80 (.228)	9.10 (.358)
5	35507-0500	12.30 (.484)	8.00 (.315)	7.80 (.307)	11.10 (.437)
6	35507-0600	14.30 (.563)	10.00 (.394)	9.80 (.386)	13.10 (.516)
7	35507-0700	16.30 (.642)	12.00 (.472)	11.80 (.465)	15.10 (.594)
8	35507-0800	18.30 (.720)	14.00 (.551)	13.80 (.543)	17.10 (.673)
9	35507-0900	20.30 (.799)	16.00 (.630)	15.80 (.622)	19.10 (.752)
10	35507-1000	22.30 (.878)	18.00 (.709)	17.80 (.701)	21.10 (.831)
11	35507-1100	24.30 (.957)	20.00 (.787)	19.80 (.780)	23.10 (.909)
12	35507-1200	26.30 (1.035)	22.00 (.866)	21.80 (.858)	25.10 (.988)
13	35507-1300	28.30 (1.114)	24.00 (.945)	23.80 (.937)	27.10 (1.067)
14	35507-1400	30.30 (1.193)	26.00 (1.024)	25.80 (1.016)	29.10 (1.146)
15	35507-1500	32.30 (1.272)	28.00 (1.102)	27.80 (1.094)	31.10 (1.232)
20	35507-2000	42.30 (1.665)	38.00 (1.496)	37.80 (1.488)	41.10 (1.618)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 and 20 circuits
- Positive locking ribs provide secure mating retention
- Four-wall shroud with guide plate protects pins and facilitates mating
- Compact low-profile design for space savings
- Polarizing end walls prevent mismatching
- Five color choices for circuit identification

Reference Information

Product Specification: PS-35507
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 35507 housing
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 2.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 500V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 5 circuits—58.8N (13.2 lb)
 Unmating Force: 5 circuits—3.3N (0.7 lb)
 Durability: 30 cycles

Physical

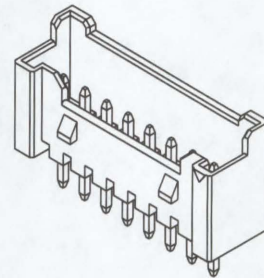
Housing: Polyamide, UL 94V-0
 Contact: Brass
 Plating: Tin/Lead
 Operating Temperature: -40 to +105°C
 Mated Height: 7.2mm (.283")
 Mated Width: 5.8mm (.228")



2.00mm (.079") Pitch Sherlock™ Wire-to-Board Header

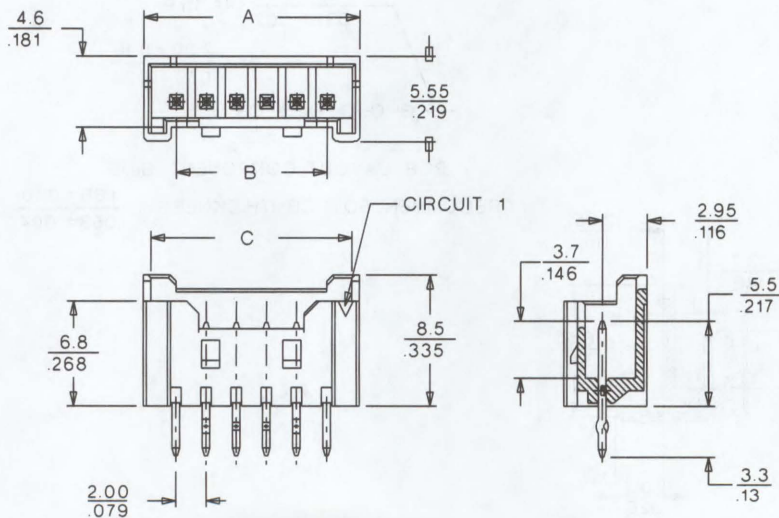
35362

Vertical



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
 RECOMMENDED PCB THICKNESS : $\frac{1.60 \pm 0.10}{.063 \pm .004}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	35362-0210	7.70 (.303)	2.00 (.079)	5.30 (.209)
3	35362-0310	9.70 (.382)	4.00 (.157)	7.30 (.287)
4	35362-0410	10.30 (.406)	6.00 (.236)	9.30 (.366)
5	35362-0510	12.30 (.484)	8.00 (.315)	11.30 (.445)
6	35362-0610	14.30 (.563)	10.00 (.394)	13.30 (.524)
7	35362-0710	16.30 (.642)	12.00 (.472)	15.30 (.602)
8	35362-0810	18.30 (.720)	14.00 (.551)	17.30 (.681)
9	35362-0910	20.30 (.799)	16.00 (.630)	19.30 (.760)
10	35362-1010	22.30 (.878)	18.00 (.709)	21.30 (.839)
11	35362-1110	24.30 (.957)	20.00 (.787)	23.30 (.917)
12	35362-1210	26.30 (1.035)	22.00 (.866)	25.30 (.996)
13	35362-1310	28.30 (1.114)	24.00 (.945)	27.30 (1.075)
14	35362-1410	30.30 (1.193)	26.00 (1.024)	29.30 (1.154)
15	35362-1510	32.30 (1.272)	28.00 (1.102)	31.30 (1.232)
20	35362-2010	42.30 (1.665)	38.00 (1.496)	41.30 (1.626)

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 and 20 circuits
- Positive locking ribs provide secure mating retention
- Four-wall shroud with guide plate protects pins and facilitates mating
- Compact low-profile design for space savings
- Polarizing end walls prevent mismating
- Five color choices for circuit identification

Reference Information

Product Specification: PS-35507
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 35507 housing
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 2.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 500V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 5 circuits—58.8N (13.2 lb)
 Unmating Force: 5 circuits—3.3N (0.7 lb)
 Durability: 30 cycles

Physical

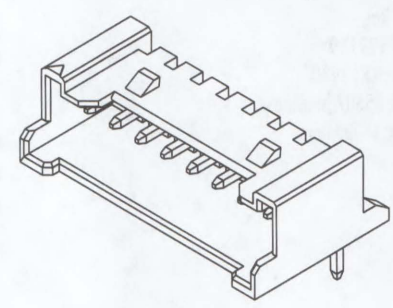
Housing: Polyamide, UL 94V-0
 Contact: Brass
 Plating: Tin/Lead
 Operating Temperature: -40 to +105°C



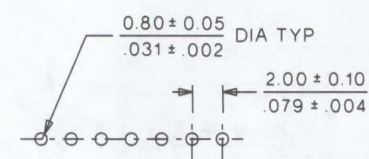
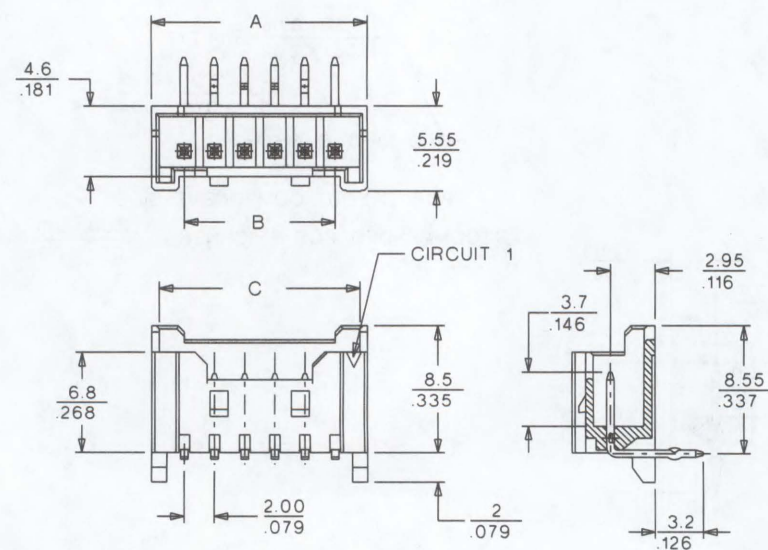
2.00mm (.079") Pitch Sherlock™ Wire-to-Board Header

35363

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
 RECOMMENDED PCB THICKNESS : 1.60 ± 0.10 / .063 ± .004

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	35363-0210	7.70 (.303)	2.00 (.079)	5.30 (.209)
3	35363-0310	9.70 (.382)	4.00 (.157)	7.30 (.287)
4	35363-0410	10.30 (.406)	6.00 (.236)	9.30 (.366)
5	35363-0510	12.30 (.484)	8.00 (.315)	11.30 (.445)
6	35363-0610	14.30 (.563)	10.00 (.394)	13.30 (.524)
7	35363-0710	16.30 (.642)	12.00 (.472)	15.30 (.602)
8	35363-0810	18.30 (.720)	14.00 (.551)	17.30 (.681)
9	35363-0910	20.30 (.799)	16.00 (.630)	19.30 (.760)
10	35363-1010	22.30 (.878)	18.00 (.709)	21.30 (.839)
11	35363-1110	24.30 (.957)	20.00 (.787)	23.30 (.917)
12	35363-1210	26.30 (1.035)	22.00 (.866)	25.30 (.996)
13	35363-1310	28.30 (1.114)	24.00 (.945)	27.30 (1.075)
14	35363-1410	30.30 (1.193)	26.00 (1.024)	29.30 (1.154)
15	35363-1510	32.30 (1.271)	28.00 (1.102)	31.30 (1.232)
20	35363-2010	42.30 (1.665)	38.00 (1.496)	41.30 (1.626)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Box design provides two points of contact and terminal protection
- Locking tang for secure housing retention

Reference Information

Packaging: Reel or bag
Use With: 51004
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28	30-40
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

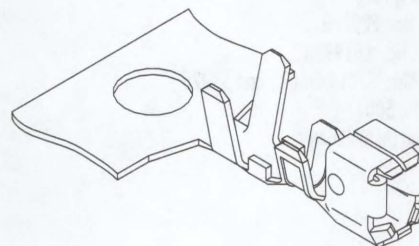
Physical

Contact: Phosphor Bronze
Plating: Tin
Wire Range: 24 to 34 AWG
Insulation Range: 1.40mm dia. max.
Strip Length: 1.60 to 2.10mm



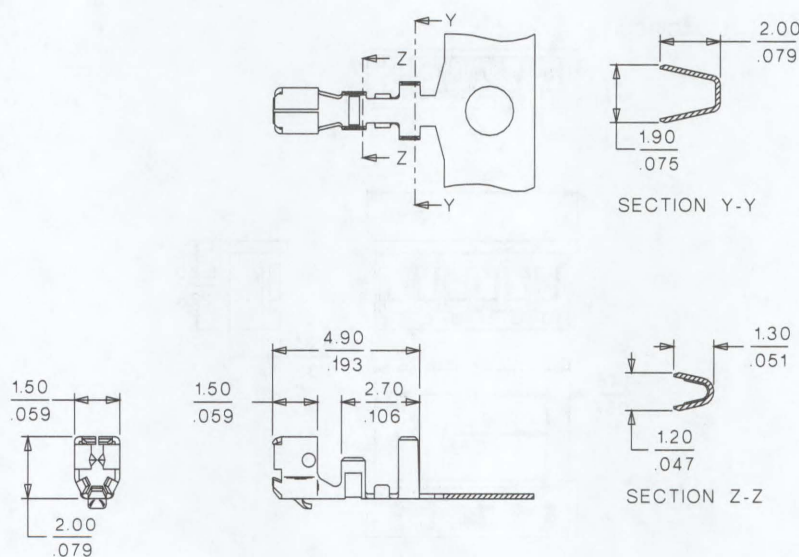
2.00mm (.079") Pitch Wire-to-Board Crimp Terminal

50011



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Wire Range AWG	Terminal
50011-8000	24-30	Reel
50011-8100		Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Housing lance provides extra terminal retention
- Friction lock provides secure mating

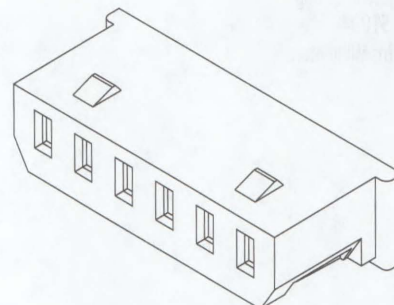
Physical

Housing: PBTP, UL 94V-0
Operating Temperature: -20 to +85°C



2.00mm (.079") Pitch Wire-to-Board Housing

51004

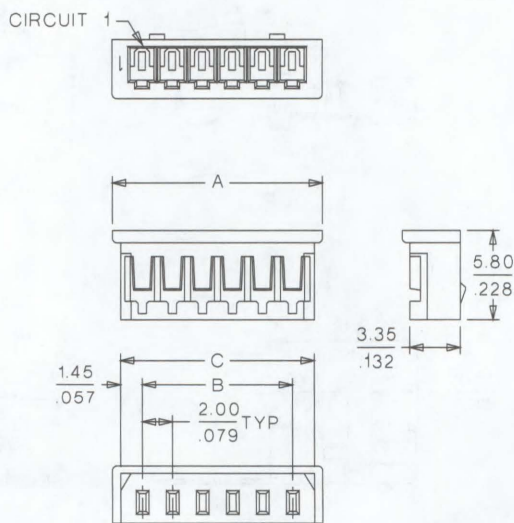


Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 53014, 53015 and 53025
Use With: 50011
Designed In: Millimeters

2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	51004-0200	6.00 (.236)	2.00 (.079)	4.90 (.193)
3	51004-0300	8.00 (.315)	4.00 (.157)	6.90 (.272)
4	51004-0400	10.00 (.394)	6.00 (.236)	8.90 (.350)
5	51004-0500	12.00 (.472)	8.00 (.314)	10.90 (.429)
6	51004-0600	14.00 (.551)	10.00 (.394)	12.90 (.508)
7	51004-0700	16.00 (.630)	12.00 (.472)	14.90 (.587)
8	51004-0800	18.00 (.709)	14.00 (.551)	16.90 (.665)
9	51004-0900	20.00 (.787)	16.00 (.630)	18.90 (.744)
10	51004-1000	22.00 (.866)	18.00 (.709)	20.90 (.823)
11	51004-1100	24.00 (.945)	20.00 (.787)	22.90 (.902)
12	51004-1200	26.00 (1.024)	22.00 (.866)	24.90 (.980)
13	51004-1300	28.00 (1.102)	24.00 (.945)	26.90 (1.059)
14	51004-1400	30.00 (1.181)	26.00 (1.024)	28.90 (1.138)
15	51004-1500	32.00 (1.260)	28.00 (1.102)	30.90 (1.217)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows provide secure mating

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 51004
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28	30-34
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

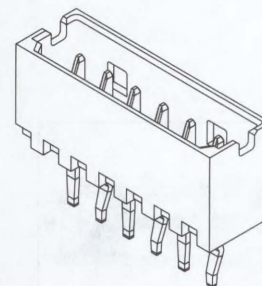
Housing: Glass-filled 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -20 to +85°C



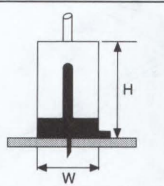
2.00mm (.079") Pitch Wire-to-Board Header

53014

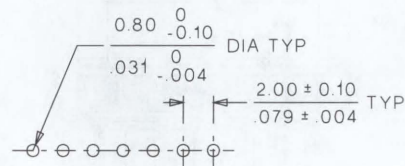
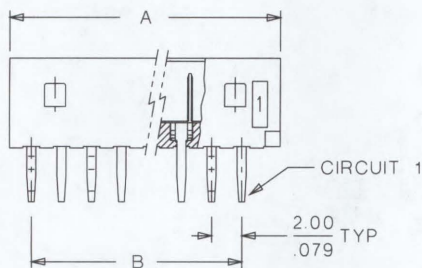
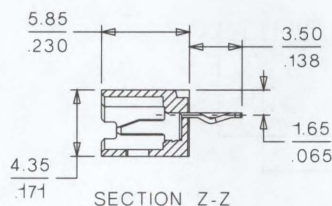
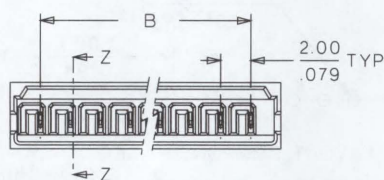
Vertical



Mating Dimensions
53014 • 51004 • 50011
H=7.6mm W=4.4mm



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS : 1.60 ± 0.10
.063 ± .004

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	53014-0210	6.00 (.236)	2.00 (.079)
3	53014-0310	8.00 (.315)	4.00 (.157)
4	53014-0410	10.00 (.394)	6.00 (.236)
5	53014-0510	12.00 (.472)	8.00 (.315)
6	53014-0610	14.00 (.551)	10.00 (.394)
7	53014-0710	16.00 (.630)	12.00 (.472)
8	53014-0810	18.00 (.709)	14.00 (.551)
9	53014-0910	20.00 (.787)	16.00 (.630)
10	53014-1010	22.00 (.866)	18.00 (.709)
11	53014-1110	24.00 (.945)	20.00 (.787)
12	53014-1210	26.00 (1.024)	22.00 (.866)
13	53014-1310	28.00 (1.102)	24.00 (.945)
14	53014-1410	30.00 (1.181)	26.00 (1.024)
15	53014-1510	32.00 (1.260)	28.00 (1.102)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows provides secure mating

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 51004
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28	30-34
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

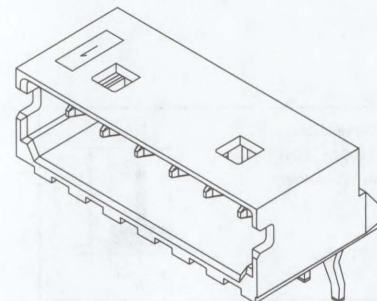
Housing: Glass-filled 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -20 to +85°C



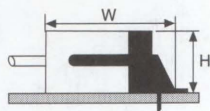
2.00mm (.079") Pitch
Wire-to-Board
Header

53015

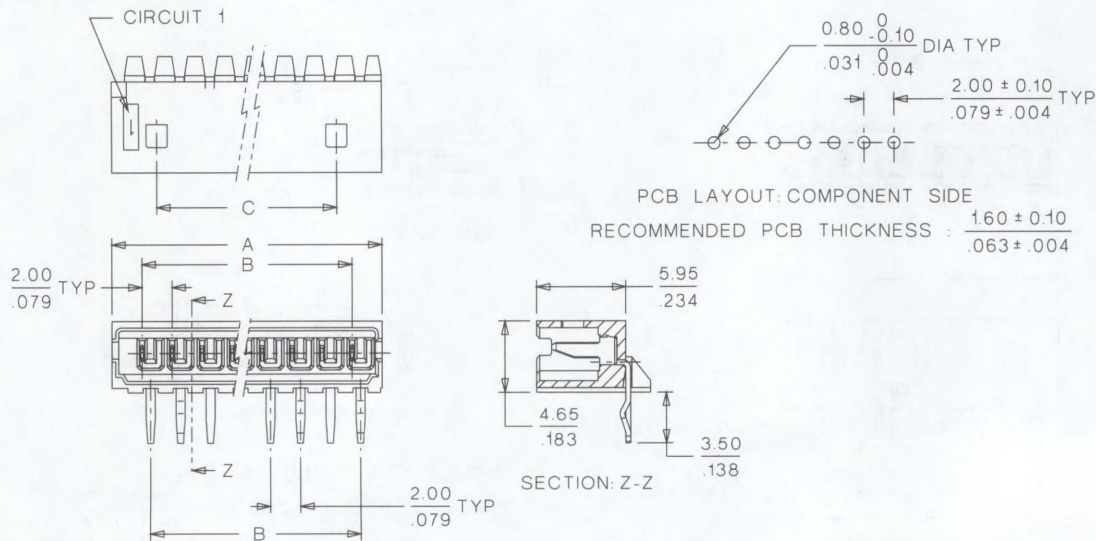
Right Angle



Mating Dimensions
53015 • 51004 • 50011
H=4.7mm W=9.3mm



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	53015-0210	6.00 (.236)	2.00 (.079)	—
3	53015-0310	8.00 (.315)	4.00 (.157)	—
4	53015-0410	10.00 (.394)	6.00 (.236)	4.00 (.157)
5	53015-0510	12.00 (.472)	8.00 (.314)	6.00 (.236)
6	53015-0610	14.00 (.551)	10.00 (.393)	8.00 (.314)
7	53015-0710	16.00 (.630)	12.00 (.472)	10.00 (.393)
8	53015-0810	18.00 (.709)	14.00 (.551)	12.00 (.472)
9	53015-0910	20.00 (.787)	16.00 (.629)	14.00 (.551)
10	53015-1010	22.00 (.866)	18.00 (.708)	16.00 (.629)
11	53015-1110	24.00 (.945)	20.00 (.787)	18.00 (.708)
12	53015-1210	26.00 (1.024)	22.00 (.866)	20.00 (.787)
13	53015-1310	28.00 (1.102)	24.00 (.944)	22.00 (.866)
14	53015-1410	30.00 (1.181)	26.00 (1.023)	24.00 (.944)
15	53015-1510	32.00 (1.260)	28.00 (1.102)	26.00 (1.023)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 10 circuits
- Locking windows provide secure mating

Reference Information

Packaging: Tray
Mates With: 51004
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

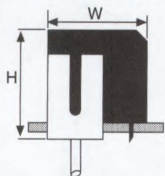
AWG	24	26	28	30-34
Amperes	2.0	1.5	1.0	0.5

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

Housing: Glass-filled 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -20 to +85°C
Mated Height: 7.40mm (.291")
Mated Width: 10.00mm (.394")

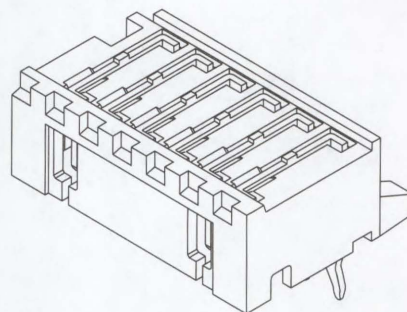
Mating Dimensions
53025 • 51004 • 50011
H=7.4mm W=10.0mm



2.00mm (.079") Pitch Wire-to-Board Header

53025

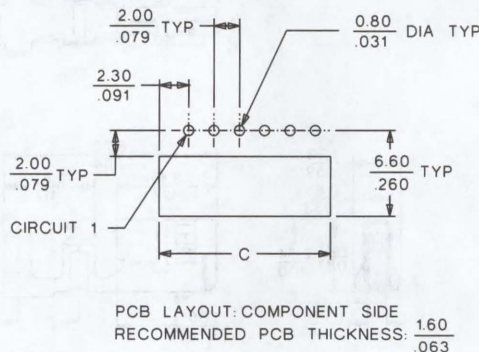
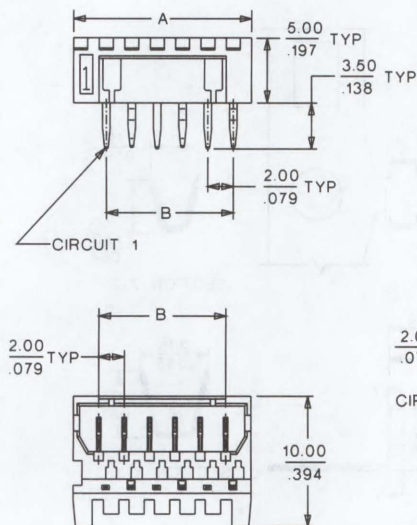
Bottom Entry



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	53025-0210	6.00 (.236)	2.00 (.079)	5.50 (.216)
3	53025-0310	8.00 (.315)	4.00 (.157)	7.50 (.295)
4	53025-0410	10.00 (.394)	6.00 (.236)	9.50 (.374)
5	53025-0510	12.00 (.472)	8.00 (.314)	11.50 (.452)
6	53025-0610	14.00 (.551)	10.00 (.393)	13.50 (.531)
7	53025-0710	16.00 (.630)	12.00 (.472)	15.50 (.610)
8	53025-0810	18.00 (.709)	14.00 (.551)	17.50 (.688)
9	53025-0910	20.00 (.787)	16.00 (.629)	19.50 (.767)
10	53025-1010	22.00 (.866)	18.00 (.708)	21.50 (.846)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Two points of contact for good electrical reliability
- Double-box design for retainer support

Reference Information

Product Specification: PS-51216-005

Packaging: Reel or bag

Use With: 51216

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: Phosphor Bronze

Plating: Tin

Wire Range: 22 to 28 AWG

Insulation Diameter: 1.50mm (.059") max.

Strip Length: 1.60 to 2.00mm (.063 to .079")

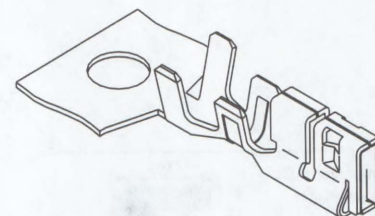
Operating Temperature: -25 to +85°C



2.00mm (.079") Pitch Wire-to-Board Crimp Terminal

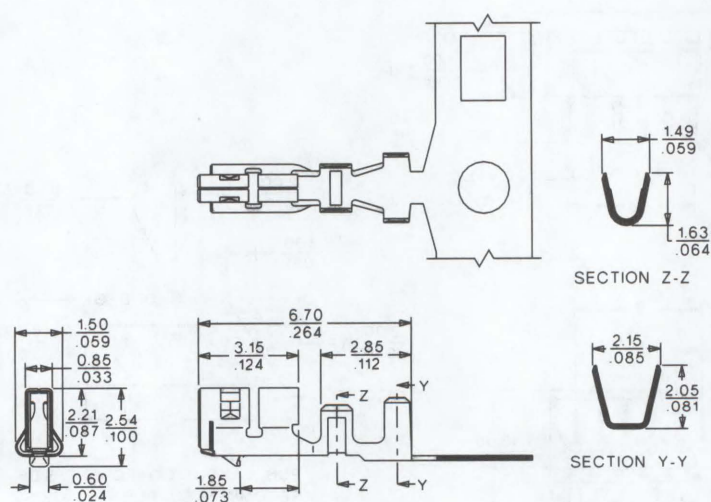
59370

Female



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Order No.	Packaging
59370-8000	Reel
59370-8100	Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 15 circuits
- Internal push-type positive lock provides secure retention, easy mating, and latch protection during harness assembly
- Side ribs for latch protection and polarization
- Housing lance provides secure terminal retention

Reference Information

Product Specification: PS-51216-005

Packaging: Bag

Mates With: 55487

Use With: 59370 terminal and 51217 retainer

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: Natural PBTP, UL 94V-0

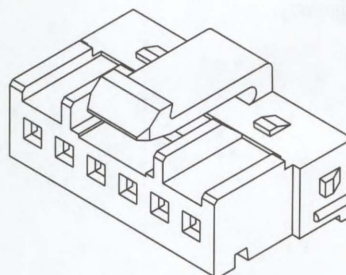
Operating Temperature: -25 to +85°C



2.00mm (.079") Pitch Wire-to-Board Housing

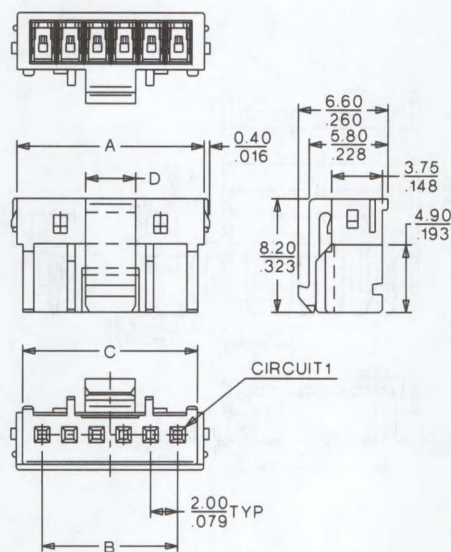
51216

Positive Lock



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension			
		A	B	C	D
4	51216-0400	9.80 (.386)	6.00 (.236)	8.90 (.350)	3.70 (.146)
5	51216-0500	11.80 (.465)	8.00 (.315)	10.90 (.429)	3.70 (.146)
6	51216-0600	13.80 (.543)	10.00 (.394)	12.90 (.508)	3.70 (.146)
7	51216-0700	15.80 (.622)	12.00 (.472)	14.90 (.587)	3.70 (.146)
8	51216-0800	17.80 (.701)	14.00 (.551)	16.90 (.665)	3.70 (.146)
9	51216-0900	19.80 (.780)	16.00 (.630)	18.90 (.744)	3.70 (.146)
10	51216-1000	21.80 (.858)	18.00 (.709)	20.90 (.823)	3.70 (.146)
11	51216-1100	23.80 (.937)	20.00 (.787)	22.90 (.902)	3.70 (.146)
12	51216-1200	25.80 (1.016)	22.00 (.866)	24.90 (.980)	3.70 (.146)
13	51216-1300	27.80 (1.094)	24.00 (.945)	26.90 (1.059)	3.70 (.146)
14	51216-1400	29.80 (1.173)	26.00 (1.024)	28.90 (1.138)	3.70 (.146)
15	51216-1500	31.80 (1.252)	28.00 (1.102)	30.90 (1.217)	3.70 (.146)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 15 circuits
- Provides additional terminal retention
- Space-saving design snaps easily onto housing

Reference Information

Product Specification: PS-51216-005

Packaging: Bag

Use With: 51216

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

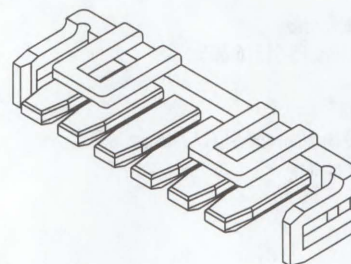
Housing: Gray PBTP, UL 94V-0

Operating Temperature: -25 to +85°C

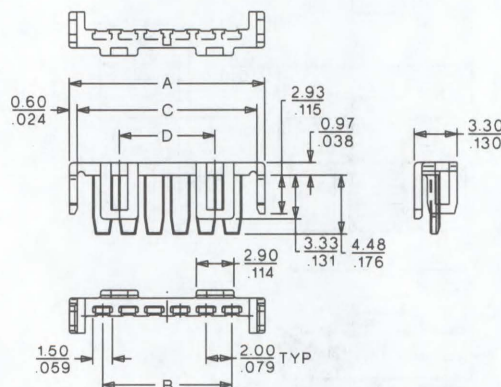


2.00mm (.079") Pitch Wire-to-Board Retainer

51217



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension			
		A	B	C	D
4	51217-0405	11.10 (.437)	6.00 (.236)	9.90 (.390)	
5	51217-0505	13.10 (.516)	8.00 (.315)	11.90 (.469)	7.40 (.291)
6	51217-0605	15.10 (.594)	10.00 (.394)	13.90 (.547)	7.40 (.291)
7	51217-0705	17.10 (.673)	12.00 (.472)	15.90 (.626)	7.40 (.291)
8	51217-0805	19.10 (.752)	14.00 (.551)	17.90 (.705)	7.40 (.291)
9	51217-0905	21.10 (.831)	16.00 (.630)	19.90 (.783)	7.40 (.291)
10	51217-1005	23.10 (.909)	18.00 (.709)	21.90 (.862)	7.40 (.291)
11	51217-1105	25.10 (.988)	20.00 (.787)	23.90 (.941)	7.40 (.291)
12	51217-1205	27.10 (1.067)	22.00 (.866)	25.90 (1.020)	7.40 (.291)
13	51217-1305	29.10 (1.146)	24.00 (.945)	27.90 (1.098)	7.40 (.291)
14	51217-1405	31.10 (1.224)	26.00 (1.024)	29.90 (1.177)	7.40 (.291)
15	51217-1505	33.10 (1.303)	28.00 (1.102)	31.90 (1.256)	7.40 (.291)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 15 circuits
- Internal push-type positive lock provides secure retention, polarization and easy mating/unmating
- Potting type used for sealing components in white goods applications
- Polarization pegs assist placement

Reference Information

Product Specification: PS-51216-005

Packaging: Tray

Mates With: 51216

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: Glass-filled 6/6 nylon, UL 94V-0

Contact: Brass

Plating: Contact Area—Tin/Lead

Underplating—Copper

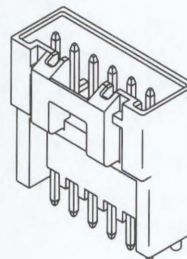
Operating Temperature: -25 to +85°C



2.00mm (.079") Pitch Wire-to-Board Header

55487

Vertical Fully Shrouded

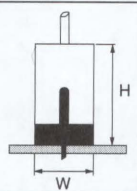


Mating Dimensions

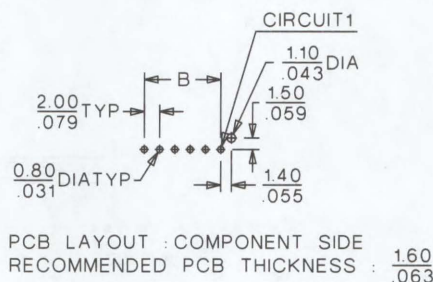
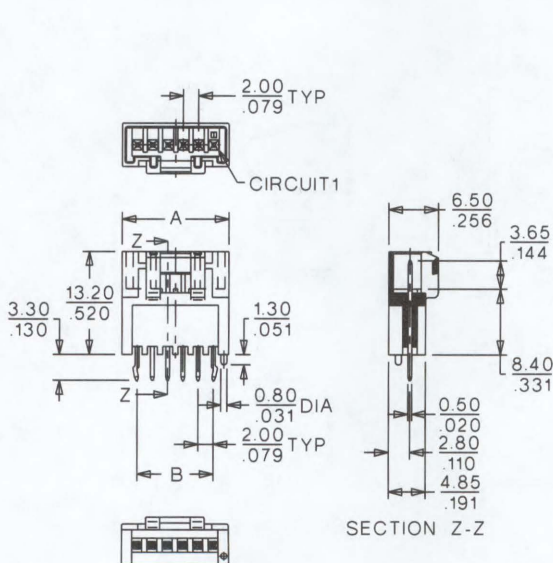
55487/51216/59370

H=16.60mm (.654") W=6.50mm (.256")

(With retainer: H=17.70mm (.697"))



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	55487-0410	10.00 (.394)	6.00 (.236)
5	55487-0510	12.00 (.472)	8.00 (.315)
6	55487-0610	14.00 (.551)	10.00 (.394)
7	55487-0710	16.00 (.630)	12.00 (.472)
8	55487-0810	18.00 (.709)	14.00 (.551)
9	55487-0910	20.00 (.787)	16.00 (.630)
10	55487-1010	22.00 (.866)	18.00 (.709)
11	55487-1110	24.00 (.945)	20.00 (.787)
12	55487-1210	26.00 (1.024)	22.00 (.866)
13	55487-1310	28.00 (1.102)	24.00 (.945)
14	55487-1410	30.00 (1.181)	26.00 (1.024)
15	55487-1510	32.00 (1.260)	28.00 (1.102)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Locking tang secures terminal to housing

Reference Information

Packaging: Reel or bag

Use With: 51015

Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	26	28	30
Amperes	2.0	1.5	1.0

Contact Resistance: 5mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: Phosphor Bronze

Plating: Tin

Operating Temperature: -40 to +105°C

Wire Range: 26 to 30 AWG

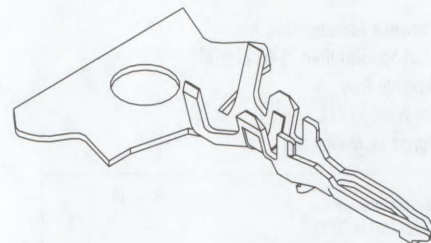
Insulation Range: 1.40mm dia. max.

Strip Length: 1.40 to 1.90mm

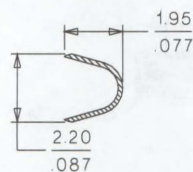
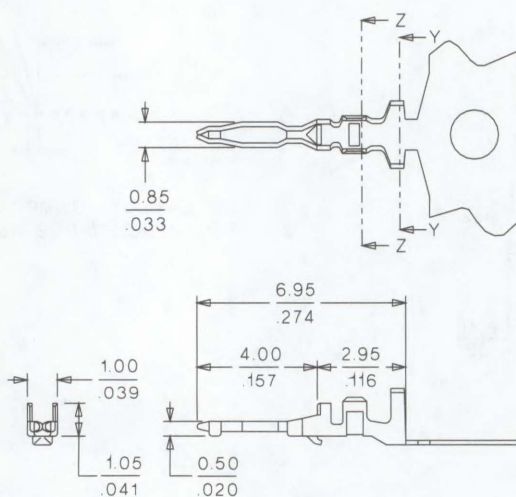


2.00mm (.079") Pitch Board-In Connector Crimp Terminal

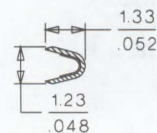
50034



CATALOG DRAWING (FOR REFERENCE ONLY)



SECTION Y-Y



SECTION Z-Z

ORDERING INFORMATION

Order No.	Terminal
50034-8000	Reel
50034-8100	Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Low profile of 3.8mm
- Locking windows secure terminal to housing

Reference Information

Packaging: Bag
Use With: 50034
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	26	28	30
Amperes	2.0	1.5	1.0

Dielectric Withstanding Voltage: 500V AC
Insulation Resistance: 1000 MΩ min.

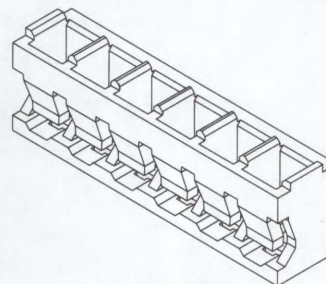
Physical

Housing: PBTP, UL 94V-0
Operating Temperature: -40 to +105°C



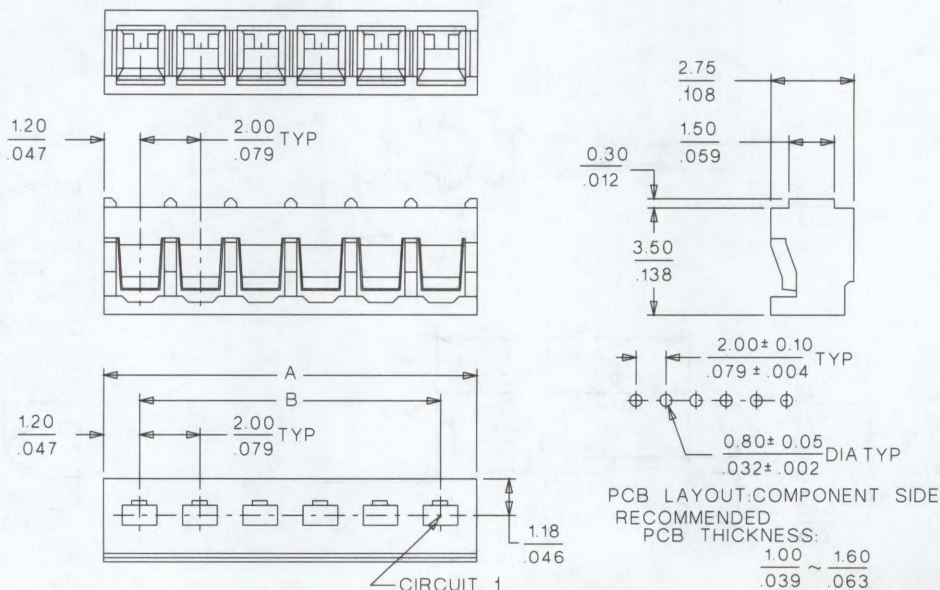
2.00mm (.079") Pitch Board-In Connector Housing

51015



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	51015-0200	4.40 (.173)	2.00 (.079)
3	51015-0300	6.40 (.252)	4.00 (.157)
4	51015-0400	8.40 (.331)	6.00 (.236)
5	51015-0500	10.40 (.409)	8.00 (.314)
6	51015-0600	12.40 (.488)	10.00 (.393)
7	51015-0700	14.40 (.567)	12.00 (.472)
8	51015-0800	16.40 (.646)	14.00 (.551)
9	51015-0900	18.40 (.724)	16.00 (.629)
10	51015-1000	20.40 (.803)	18.00 (.708)
11	51015-1100	22.40 (.882)	20.00 (.787)
12	51015-1200	24.40 (.961)	22.00 (.866)
13	51015-1300	26.40 (1.039)	24.00 (.944)
14	51015-1400	28.40 (1.118)	26.00 (1.023)
15	51015-1500	30.40 (1.197)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Locking tang secures terminal to housing

Reference Information

Packaging: Reel or bag

Use With: 5379

Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	24	26	28
Amperes	2.0	2.0	1.5

Contact Resistance on Crimped Portion: 5mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: Brass

Plating: Tin

Wire Range: 24 to 28 AWG

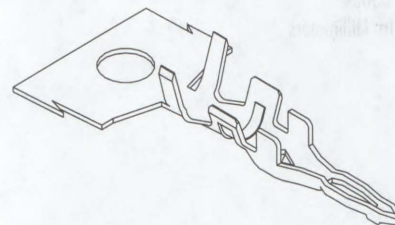
Insulation Range: 1.50mm dia. max.

Strip Length: 1.70 to 2.30mm

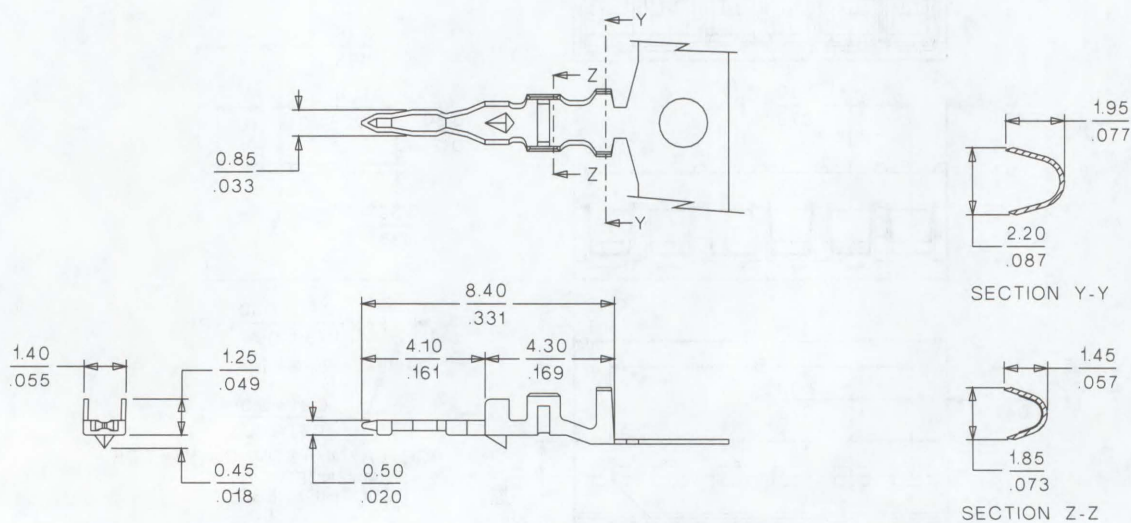


2.00mm (.079") Pitch Board-In Connector Terminal

5378



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Terminal
39-00-0029	Reel
39-00-0030	Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows secure terminal to housing

Reference Information

Packaging: Bag
UL File No.: E29179
Use With: 5378
Designed In: Millimeters

Electrical

Voltage: 125V
Current:

AWG	24	26	28
Amperes	2.0	2.0	1.5

Dielectric Withstanding Voltage: 500V AC
Insulation Resistance: 1000 MΩ min.

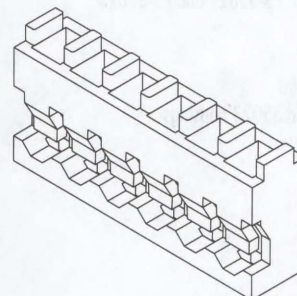
Physical

Housing: 6/6 nylon, UL 94V-0
Operating Temperature: -40 to +105°C



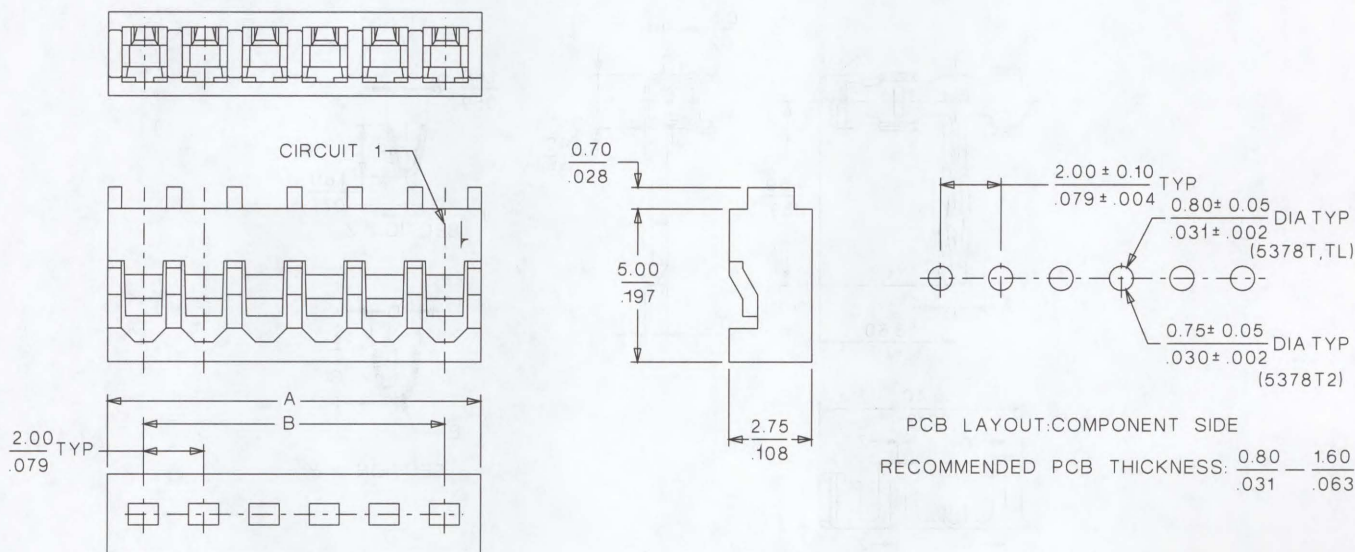
2.00mm (.079") Pitch Board-In Connector Housing

5379



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	39-01-0029	4.40 (.173)	2.00 (.079)
3	39-01-0039	6.40 (.252)	4.00 (.157)
4	39-01-0049	8.40 (.331)	6.00 (.236)
5	39-01-0059	10.40 (.409)	8.00 (.314)
6	39-01-0069	12.40 (.488)	10.00 (.393)
7	39-01-0079	14.40 (.567)	12.00 (.472)
8	39-01-0089	16.40 (.646)	14.00 (.551)
9	39-01-0099	18.40 (.724)	16.00 (.629)
10	39-01-0109	20.40 (.803)	18.00 (.708)
11	39-01-0119	22.40 (.882)	20.00 (.787)
12	39-01-0129	24.40 (.961)	22.00 (.866)
13	39-01-0139	26.40 (1.039)	24.00 (.944)
14	39-01-0149	28.40 (1.118)	26.00 (1.023)
15	39-01-0159	30.40 (1.197)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Very low profile
- Wide wire range (22 to 30 AWG)
- Locking tab secures terminal to housing
- Diamond-shaped PC tail ensures secure PCB retention

Reference Information

Product Specification: PS-35022 and PS-35023
 Packaging: Reel
 UL File No.: E29179
 CSA File No.: LR19980
 Use With: 35022 and 35023 housings
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current:

AWG	22*	24	26	28	30
Amperes	3.0	2.5	1.5	1.0	0.5

*22 AWG available for 35022 housings only

Contact Resistance: 5mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 9.8N (2.2 lb) max.

Contact Retention to Housing: 9.8N (2.2 lb) min.

Wire Pull-Out Force: 22 AWG—34.3N (7.7 lb) min.

Insertion Force to PCB: 9.8N (2.2 lb) max.

Physical

Contact: See Table

Plating: See Table

Wire Range: 22 to 30 AWG

Insulation Range: 35022—1.90mm dia. max. (22 AWG)

35023—1.50mm dia. max. (24 AWG)



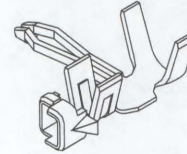
2.00/2.50mm (.079/.098")

Board-In Connector

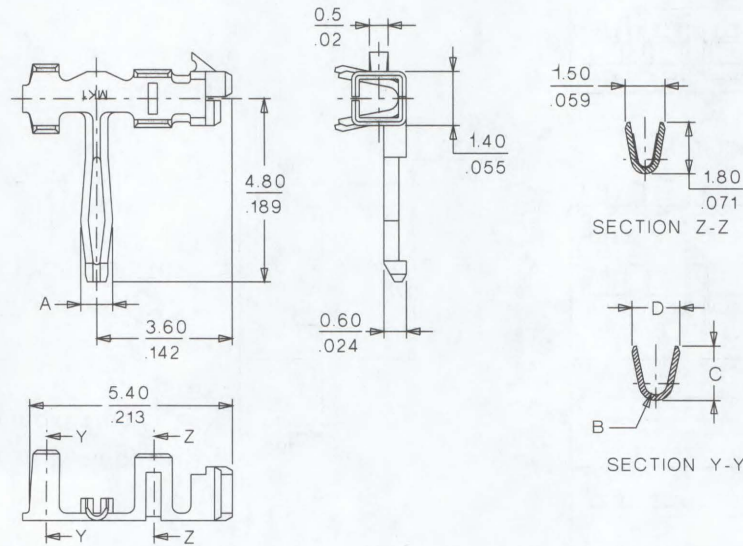
Crimp Terminal

35021

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Order No.	Contact Material	Plating	Use With Housing	Dimension			
				A	B	C	D
35021-1201	Brass	Pre-Tin	35023	0.85 (.033)	R0.40 (.016)	1.90 (.075)	1.80 (.071)
35021-1301	Phosphor Bronze	Pre-Tin		0.85 (.033)	R0.40 (.016)	1.90 (.075)	1.80 (.071)
35021-1310	Phosphor Bronze	Post-Tin		0.85 (.033)	R0.40 (.016)	1.90 (.075)	1.80 (.071)
35021-1001	Brass	Pre-Tin	35022	1.05 (.041)	R0.70 (.028)	2.50 (.098)	2.50 (.098)
35021-1101	Phosphor Bronze	Pre-Tin		1.05 (.041)	R0.70 (.028)	2.50 (.098)	2.50 (.098)
35021-1110	Phosphor Bronze	Post-Tin		1.05 (.041)	R0.70 (.028)	2.50 (.098)	2.50 (.098)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Locking tab secures terminal to housing

Reference Information

Product Specification: PS-35022 and PS-35023

Packaging: Reel

Use With: 35022 and 35023

Designed In: Millimeters

Electrical

Voltage: 125V

Current:

AWG	22*	24	26	28	30
Amperes	3.0	2.5	1.5	1.0	0.5

* 22 AWG available for 35022 housing only

Contact Resistance: 5mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 9.8N (2.2 lb) max.

Contact Retention to Housing: 9.8N (2.2 lb) min.

Wire Pull-Out Force: 24 AWG—29.4N (6.6 lb) min.

Insertion Force to PCB: 9.8N (2.2 lb) max.

Physical

Contact: Brass

Plating: Contact Area—Tin

Solder Tail Area—Tin

Underplating—Copper

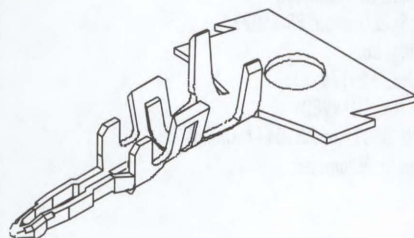
Insulation Diameter: 1.90 and 1.50mm (.075 and .059")

Wire Gauge: 22 to 30 AWG

PCB Thickness: 1.60mm (.063")

molex® 2.00/2.50mm (.079/.098")
**Board-In
Terminal**

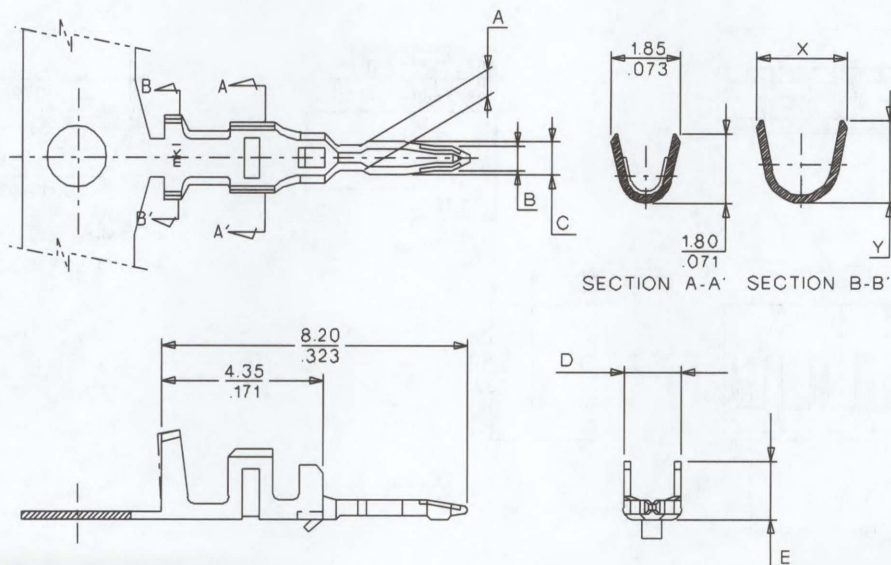
35044



B

2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Order No.	Use With Housing	Dimension						
		A	B	C	D	E	X	Y
35044-9101	35023	0.65 (.026)	0.65 (.026)	0.85 (.033)	1.40 (.055)	1.40 (.055)	2.20 (.087)	2.30 (.091)
35044-9102	2.00mm (.079") pitch						2.40 (.094)	2.15 (.085)
35044-9103	35022	0.70 (.028)	0.68 (.027)	1.05 (.041)	1.55 (.061)	1.50 (.059)	2.20 (.087)	2.30 (.091)
35044-9104	2.50mm (.098") pitch						2.40 (.094)	2.15 (.085)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 16 circuits
- Low profile (2.85mm)
- Terminal locking window
- Solders directly to PCB

Reference Information

Product Specification: PS-35023

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Use With: 35021 and 35044 terminal

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 2.5A

Contact Resistance: 5mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 9.8N (2.2 lb) max.

Contact Retention to Housing: 9.8N (2.2 lb) min.

Insertion Force to PCB: 9.81N (2.2 lb)

Physical

Housing: 6/6 nylon, UL 94V-0

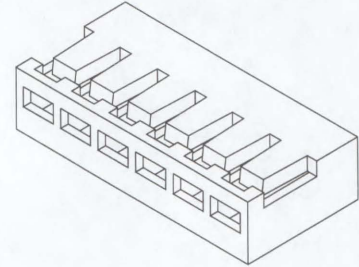
Operating Temperature: -40 to +105°C



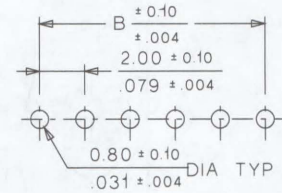
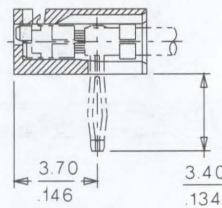
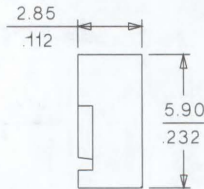
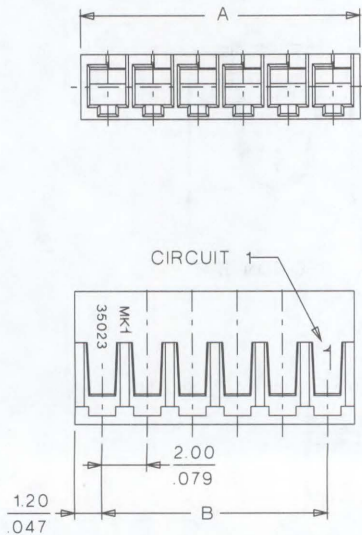
2.00mm (.079") Pitch Board-In Connector Housing

35023

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

PCB THICKNESS: $\frac{1.60}{.063}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	35023-0002	4.40 (.173)	2.00 (.079)
3	35023-0003	6.40 (.252)	4.00 (.157)
4	35023-0004	8.40 (.331)	6.00 (.236)
5	35023-0005	10.40 (.409)	8.00 (.315)
6	35023-0006	12.40 (.488)	10.00 (.394)
7	35023-0007	14.40 (.567)	12.00 (.472)
8	35023-0008	16.40 (.646)	14.00 (.551)
9	35023-0009	18.40 (.724)	16.00 (.630)
10	35023-0010	20.40 (.803)	18.00 (.709)
11	35023-0011	22.40 (.882)	20.00 (.787)
12	35023-0012	24.40 (.961)	22.00 (.866)
13	35023-0013	26.40 (1.039)	24.00 (.945)
14	35023-0014	28.40 (1.118)	26.00 (1.024)
15	35023-0015	30.40 (1.197)	28.00 (1.102)
16	35023-0016	32.40 (1.276)	30.00 (1.181)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 20 circuits

Reference Information

Packaging: Tray
UL File No.: E29179
Mates With: 5512-NA
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

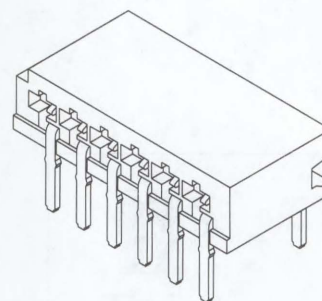
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



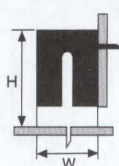
2.00mm (.079") Pitch Board-to-Board Receptacle

5513-NAPB

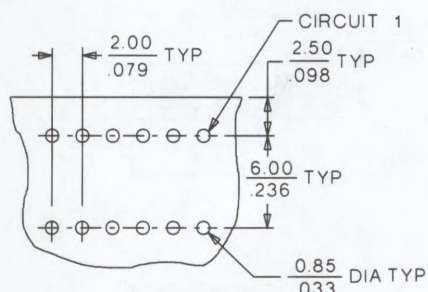
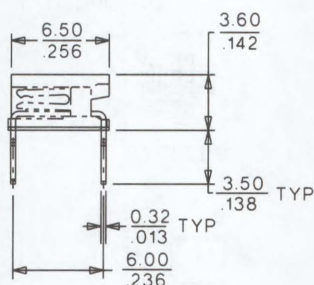
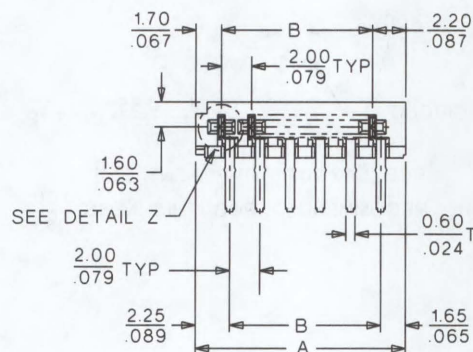
Right Angle



Mating Dimensions
5513-NAPB • 5512-NA
H=8.9mm W=4.4mm

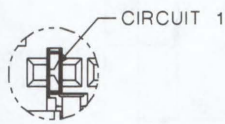


CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: 1.60 (.063)



DETAIL Z

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	39-51-3040	9.90 (.389)	6.00 (.236)
5	39-51-3050	11.90 (.468)	8.00 (.314)
6	39-51-3060	13.90 (.547)	10.00 (.393)
7	39-51-3070	15.90 (.625)	12.00 (.472)
8	39-51-3080	17.90 (.704)	14.00 (.551)
9	39-51-3090	19.90 (.783)	16.00 (.629)
10	39-51-3100	21.90 (.862)	18.00 (.708)
11	39-51-3110	23.90 (.940)	20.00 (.787)
12	39-51-3120	25.90 (1.019)	22.00 (.866)
13	39-51-3130	27.90 (1.098)	24.00 (.944)
14	39-51-3140	29.90 (1.177)	26.00 (1.023)
15	39-51-3150	31.90 (1.255)	28.00 (1.102)
16	39-51-3160	33.90 (1.334)	30.00 (1.181)
17	39-51-3170	35.90 (1.413)	32.00 (1.259)
18	39-51-3180	37.90 (1.492)	34.00 (1.338)
19	39-51-3190	39.90 (1.570)	36.00 (1.417)
20	39-51-3200	41.90 (1.649)	38.00 (1.496)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 20 circuits

Reference Information

Packaging: Tray
UL File No.: E29179
Mates With: 5512-NA
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

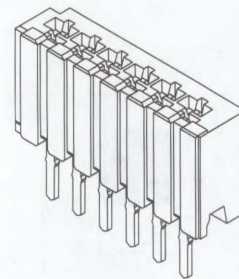
Physical

Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C

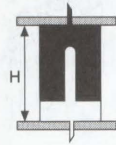
molex® 2.00mm (.079") Pitch Board-to-Board Receptacle

5513-NCPB

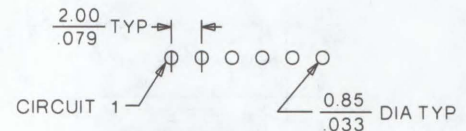
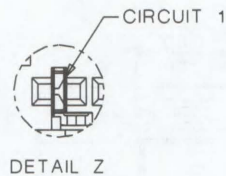
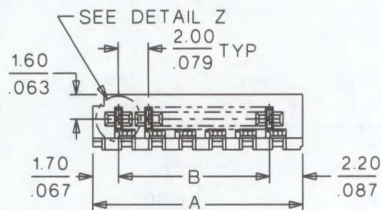
**Straight
Vertical Stacking**



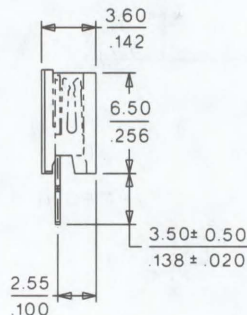
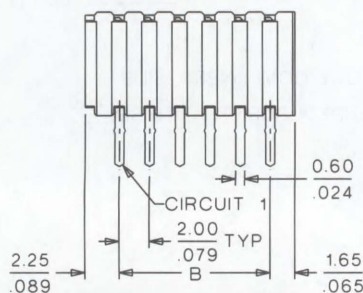
Mating Dimensions
5513-NCPB • 5512-NA
H=8.9mm W=4.4mm



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 1.60 (.063)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	39-51-3041	9.90 (.389)	6.00 (.236)
5	39-51-3051	11.90 (.468)	8.00 (.314)
6	39-51-3061	13.90 (.547)	10.00 (.393)
7	39-51-3071	15.90 (.625)	12.00 (.472)
8	39-51-3081	17.90 (.704)	14.00 (.551)
9	39-51-3091	19.90 (.783)	16.00 (.629)
10	39-51-3101	21.90 (.862)	18.00 (.708)
11	39-51-3111	23.90 (.940)	20.00 (.787)
12	39-51-3121	25.90 (1.019)	22.00 (.866)
13	39-51-3131	27.90 (1.098)	24.00 (.944)
14	39-51-3141	29.90 (1.177)	26.00 (1.023)
15	39-51-3151	31.90 (1.255)	28.00 (1.102)
16	39-51-3161	33.90 (1.334)	30.00 (1.181)
17	39-51-3171	35.90 (1.413)	32.00 (1.259)
18	39-51-3181	37.90 (1.492)	34.00 (1.338)
19	39-51-3191	39.90 (1.570)	36.00 (1.417)
20	39-51-3201	41.90 (1.649)	38.00 (1.496)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 20 circuits

Reference Information

Packaging: Tray

UL File No.: E29179

Mates With: 5513-NAPB and 5513-NCPB

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Brass

Plating: Tin

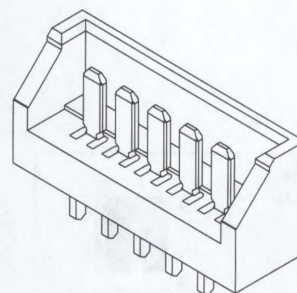
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Board-to-Board Header

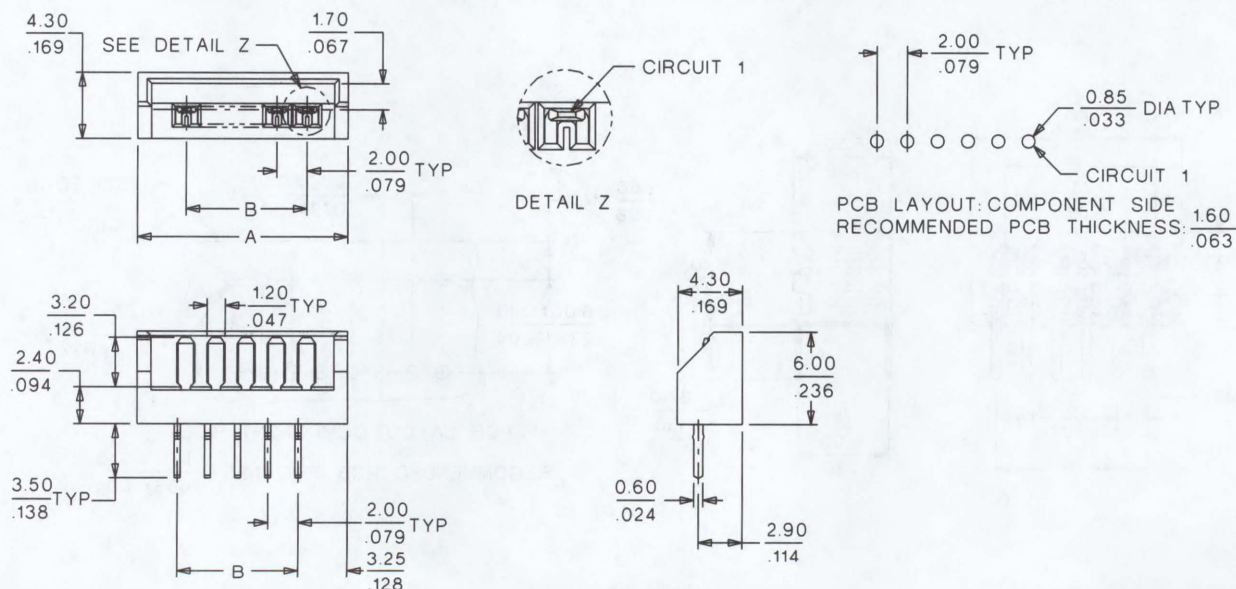
5512-NA

Vertical



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	39-26-9046	11.90 (.468)	6.00 (.236)
5	39-26-9056	13.90 (.547)	8.00 (.314)
6	39-26-9066	15.90 (.625)	10.00 (.393)
7	39-26-9076	17.90 (.704)	12.00 (.472)
8	39-26-9086	19.90 (.783)	14.00 (.551)
9	39-26-9096	21.90 (.862)	16.00 (.629)
10	39-26-9106	23.90 (.940)	18.00 (.708)
11	39-26-9116	25.90 (1.019)	20.00 (.787)
12	39-26-9126	27.90 (1.098)	22.00 (.866)
13	39-26-9136	29.90 (1.177)	24.00 (.944)
14	39-26-9146	31.90 (1.255)	26.00 (1.023)
15	39-26-9156	33.90 (1.334)	28.00 (1.102)
16	39-26-9166	35.90 (1.413)	30.00 (1.181)
17	39-26-9176	37.90 (1.492)	32.00 (1.259)
18	39-26-9186	39.90 (1.570)	34.00 (1.338)
19	39-26-9196	41.90 (1.649)	36.00 (1.417)
20	39-26-9206	43.90 (1.728)	38.00 (1.496)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 30 circuits

Reference Information

Packaging: Tray
UL File No.: E29179
Mates With: 5532-NA
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

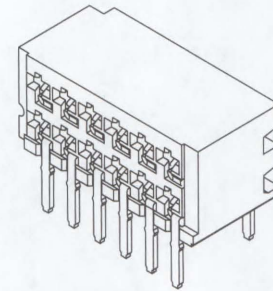
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



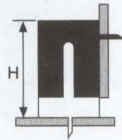
2.00mm (.079") Pitch Board-to-Board Receptacle

5533-NAPB

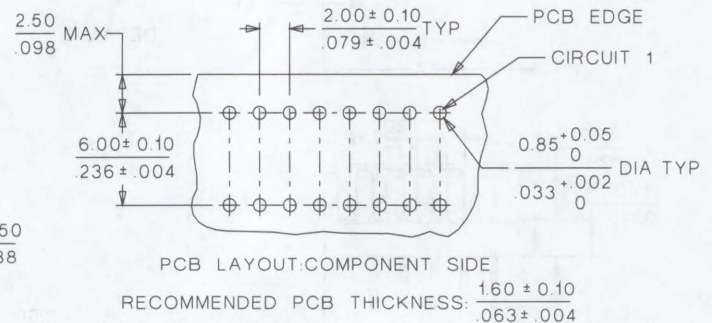
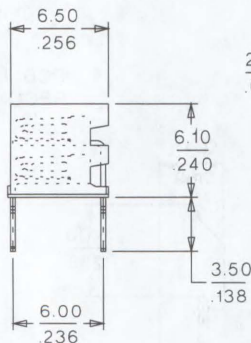
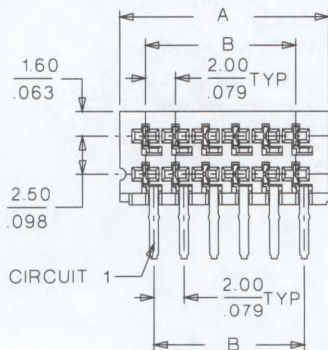
Dual Row Right Angle



Mating Dimensions
5533-NAPB • 5532-NA
H=8.9mm



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
6	39-51-2069	7.90 (.311)	4.00 (.157)
8	39-51-2089	9.90 (.390)	6.00 (.236)
10	39-51-2109	11.90 (.469)	8.00 (.315)
12	39-51-2129	13.90 (.547)	10.00 (.394)
14	39-51-2149	15.90 (.626)	12.00 (.472)
16	39-51-2169	17.90 (.705)	14.00 (.551)
18	39-51-2189	19.90 (.783)	16.00 (.630)
20	39-51-2209	21.90 (.862)	18.00 (.709)
22	39-51-2229	23.90 (.941)	20.00 (.787)
24	39-51-2249	25.90 (1.020)	22.00 (.866)
26	39-51-2269	27.90 (1.098)	24.00 (.945)
28	39-51-2289	29.90 (1.177)	26.00 (1.024)
30	39-51-2309	31.90 (1.256)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 30 circuits

Reference Information

Packaging: Tray

UL File No.: E29179

Mates With: 5532-NA

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: Tin

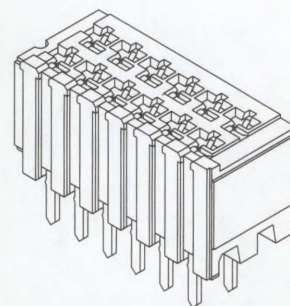
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Board-to-Board Receptacle

5533-NCPB

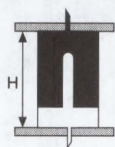
Dual Row, Straight Vertical Stacking



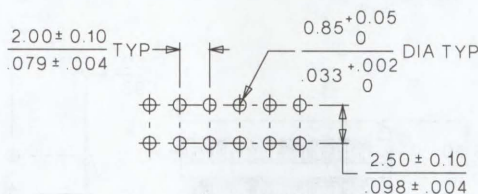
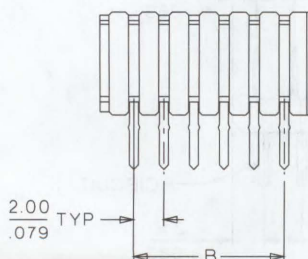
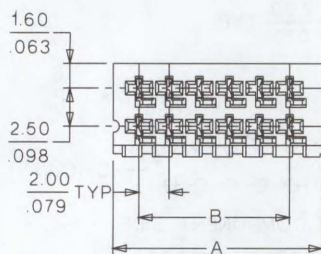
Mating Dimensions

5533-NCPB • 5532-NA

H=8.9mm

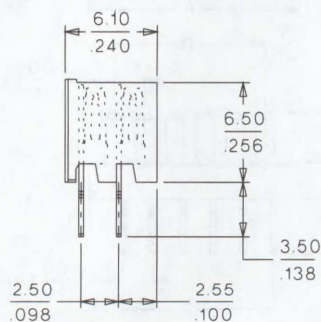


CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: 1.60 ± 0.10
.063 ± .004



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
6	39-51-3062	7.90 (.311)	4.00 (.157)
8	39-51-3082	9.90 (.390)	6.00 (.236)
10	39-51-3102	11.90 (.469)	8.00 (.315)
12	39-51-3122	13.90 (.547)	10.00 (.394)
14	39-51-3142	15.90 (.626)	12.00 (.472)
16	39-51-3162	17.90 (.705)	14.00 (.551)
18	39-51-3182	19.90 (.783)	16.00 (.630)
20	39-51-3202	21.90 (.862)	18.00 (.709)
22	39-51-3222	23.90 (.941)	20.00 (.787)
24	39-51-3242	25.90 (1.020)	22.00 (.866)
26	39-51-3262	27.90 (1.098)	24.00 (.945)
28	39-51-3282	29.90 (1.177)	26.00 (1.024)
30	39-51-3302	31.90 (1.256)	28.00 (1.102)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 30 circuits

Reference Information

Packaging: Tray

UL File No.: E29179

Mates With: 5533-NAPB and 5533-NCPB

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Brass

Plating: Tin

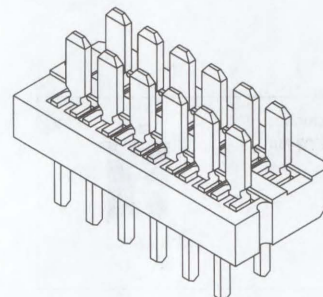
Operating Temperature: -40 to +105°C



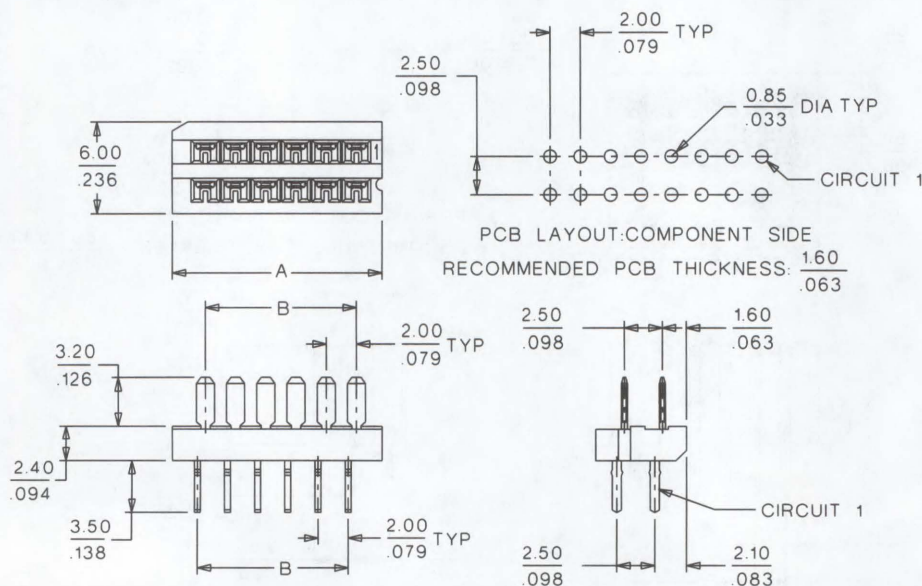
2.00mm (.079") Pitch Board-to-Board Header

5532-NA

Dual Row, Straight Vertical Stacking



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
6	39-26-9067	7.90 (.311)	4.00 (.157)
8	39-26-9087	9.90 (.390)	6.00 (.236)
10	39-26-9107	11.90 (.469)	8.00 (.314)
12	39-26-9127	13.90 (.547)	10.00 (.393)
14	39-26-9147	15.90 (.626)	12.00 (.472)
16	39-26-9167	17.90 (.705)	14.00 (.551)
18	39-26-9187	19.90 (.783)	16.00 (.629)
20	39-26-9207	21.90 (.862)	18.00 (.708)
22	39-26-9227	23.90 (.941)	20.00 (.787)
24	39-26-9247	25.90 (1.020)	22.00 (.866)
26	39-26-9267	27.90 (1.098)	24.00 (.944)
28	39-26-9287	29.90 (1.177)	26.00 (1.023)
30	39-26-9307	31.90 (1.256)	28.00 (1.102)



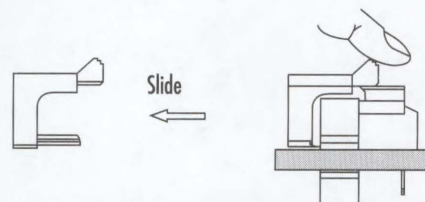
2.00mm (.079") Pitch Board-to-Board Floating Bottom Entry System Introduction

Molex's "floating" board-to-board system is designed to make PCB assembly easier, faster and more economical.

With traditional board-to-board systems it is often difficult to achieve proper alignment in situations using several connectors. Molex's floating system combines specially-tapered lead-ins and strong blade pins with up to 1.00mm (.039") of tolerance in 3 areas (X, Y and Z axis) to help guide connectors and headers together.

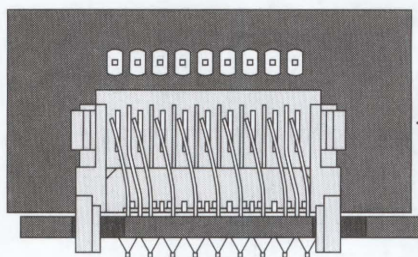
The system is ideally suited for robotic assembly, but also makes manual assembly easier.

FLUX COVER



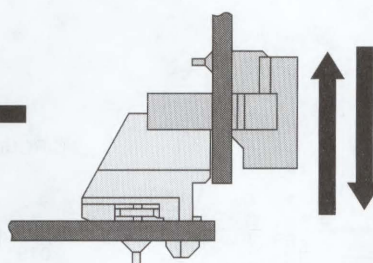
The bottom-entry housing is provided with a plastic cover to protect the contact area from flux during soldering.

X-Axis (Side-to-Side)



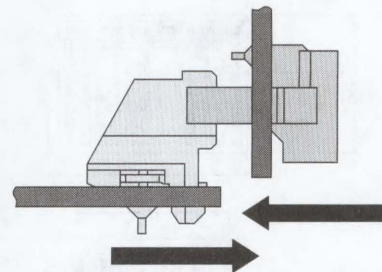
Plastic cut away from the back of the header enables the pins to move from side-to-side without affecting the solder joints. Mounting pegs in expanded slots enable the header itself to move back and forth as well.

Y-Axis (Up-Down)



Insertion is made easier by terminal slots that are longer than the blade-like pins. After assembly, the connector can be moved up and down 1.00mm (.039").

Z-Axis (In-Out)



The 0.60mm pins allow for secure contact with the connector either fully mated or up to 1.00mm (.039") apart.

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 20 circuits

Reference Information

Packaging: Tray

Mates With: 53244

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.0A

Contact Resistance: 40mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: Tin

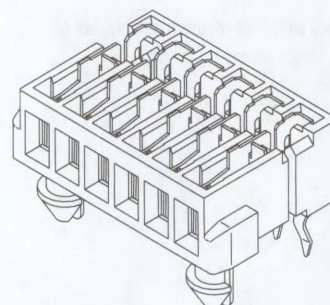
Operating Temperature: -40 to +105°C



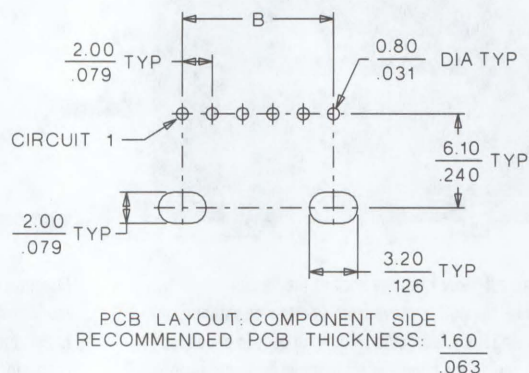
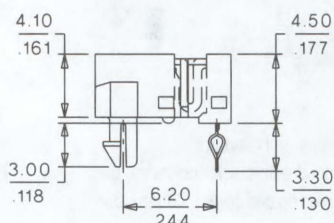
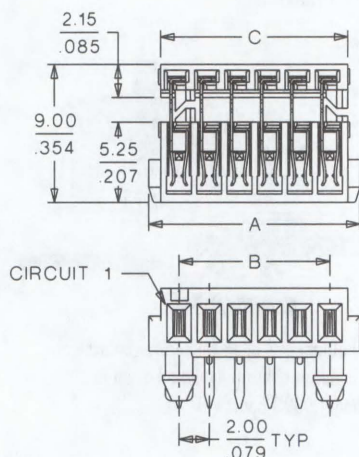
2.00mm (.079") Pitch Board-to-Board Receptacle

52330

Floating-Type Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
4	52330-0417	10.00 (.394)	6.00 (.236)	8.40 (.331)
5	52330-0517	12.00 (.472)	8.00 (.314)	10.40 (.409)
6	52330-0617	14.00 (.551)	10.00 (.393)	12.40 (.488)
7	52330-0717	16.00 (.629)	12.00 (.472)	14.40 (.566)
8	52330-0817	18.00 (.709)	14.00 (.551)	16.40 (.646)
9	52330-0917	20.00 (.787)	16.00 (.630)	18.40 (.724)
10	52330-1017	22.00 (.866)	18.00 (.708)	20.40 (.803)
11	52330-1117	24.00 (.944)	20.00 (.787)	22.40 (.881)
12	52330-1217	26.00 (1.024)	22.00 (.866)	24.40 (.961)
13	52330-1317	28.00 (1.102)	24.00 (.945)	26.40 (1.039)
14	52330-1417	30.00 (1.181)	26.00 (1.023)	28.40 (1.118)
15	52330-1517	32.00 (1.259)	28.00 (1.102)	30.40 (1.196)
16	52330-1617	34.00 (1.339)	30.00 (1.181)	32.40 (1.276)
17	52330-1717	36.00 (1.417)	32.00 (1.260)	34.40 (1.354)
18	52330-1817	38.00 (1.496)	34.00 (1.338)	36.40 (1.433)
19	52330-1917	40.00 (1.574)	36.00 (1.417)	38.40 (1.511)
20	52330-2017	42.00 (1.654)	38.00 (1.496)	40.40 (1.591)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 20 circuits
- Polarized
- Chamfered end walls for ease of assembly

Reference Information

Packaging: Tray

Mates With: 52330

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.0A

Contact Resistance: 40mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Brass

Plating: Tin

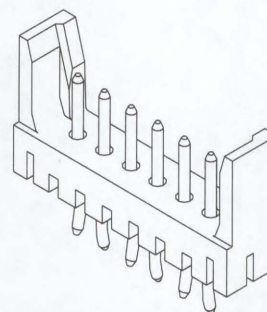
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Board-to-Board Header

53244

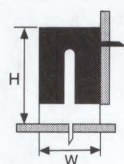
Floating-Type Vertical



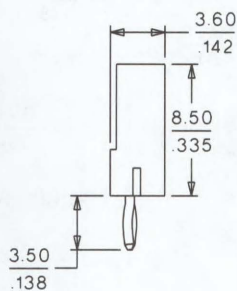
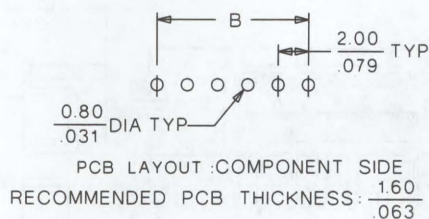
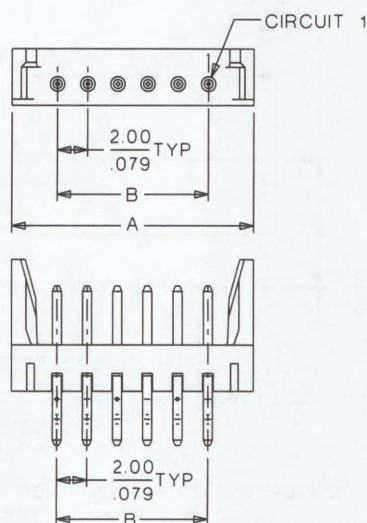
Mating Dimensions

53244 • 52330

H=4.55mm W=12.55mm



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	53244-0417	12.00 (.472)	6.00 (.236)
5	53244-0517	14.00 (.551)	8.00 (.314)
6	53244-0617	16.00 (.630)	10.00 (.393)
7	53244-0717	18.00 (.708)	12.00 (.472)
8	53244-0817	20.00 (.787)	14.00 (.551)
9	53244-0917	22.00 (.866)	16.00 (.630)
10	53244-1017	24.00 (.945)	18.00 (.708)
11	53244-1117	26.00 (1.023)	20.00 (.787)
12	53244-1217	28.00 (1.102)	22.00 (.866)
13	53244-1317	30.00 (1.181)	24.00 (.945)
14	53244-1417	32.00 (1.260)	26.00 (1.023)
15	53244-1517	34.00 (1.338)	28.00 (1.102)
16	53244-1617	36.00 (1.417)	30.00 (1.181)
17	53244-1717	38.00 (1.496)	32.00 (1.260)
18	53244-1817	40.00 (1.575)	34.00 (1.338)
19	53244-1917	42.00 (1.653)	36.00 (1.417)
20	53244-2017	44.00 (1.732)	38.00 (1.496)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 15 circuits

Reference Information

Packaging: Tray

Mates With: 53114

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Cover: 6/6 nylon, UL 94V-2

Contact: Phosphor Bronze

Plating: Tin

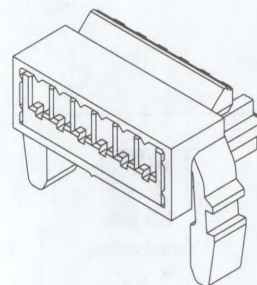
Operating Temperature: -40 to +105°C



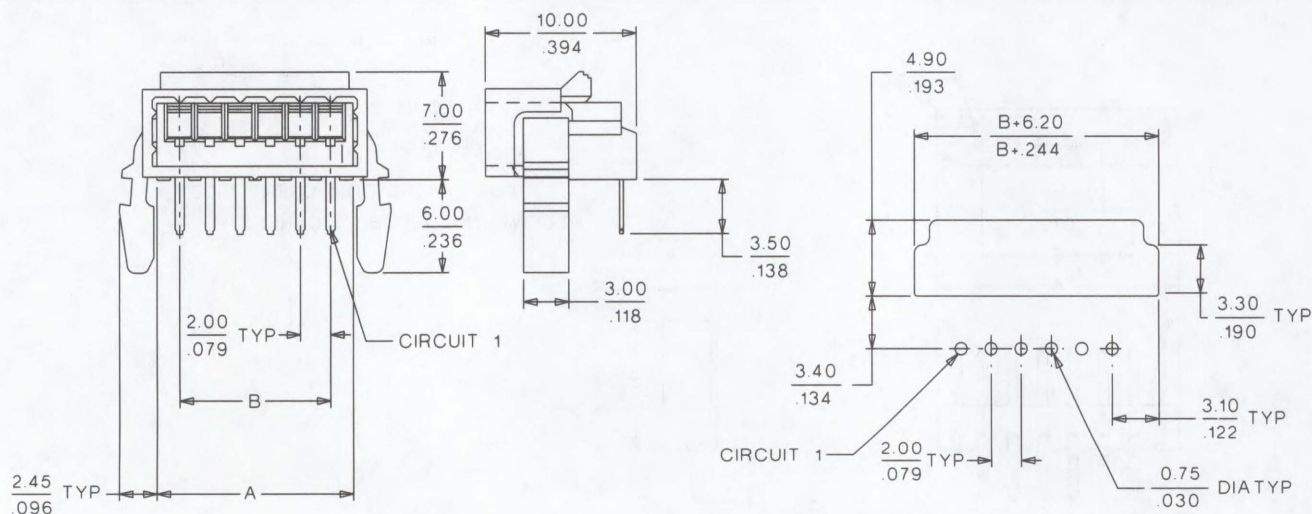
2.00mm (.079") Pitch Board-to-Board Receptacle

52170

Floating-Type



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 1.60 / .063

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
6	52170-0610	13.00 (.512)	10.00 (.394)
7	52170-0710	15.00 (.590)	12.00 (.472)
8	52170-0810	17.00 (.669)	14.00 (.551)
9	52170-0910	19.00 (.748)	16.00 (.630)
10	52170-1010	21.00 (.826)	18.00 (.709)
11	52170-1110	23.00 (.905)	20.00 (.787)
12	52170-1210	25.00 (.984)	22.00 (.866)
13	52170-1310	27.00 (1.062)	24.00 (.944)
14	52170-1410	29.00 (1.141)	26.00 (1.023)
15	52170-1510	31.00 (1.220)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 15 circuits
- Strong blade pins provide long contact area and protection during mating

Reference Information

Packaging: Tray
Mates With: 52170
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

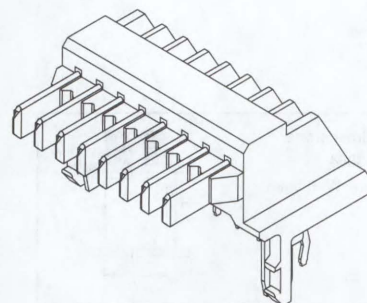
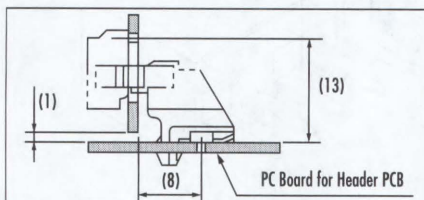
Physical

Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C

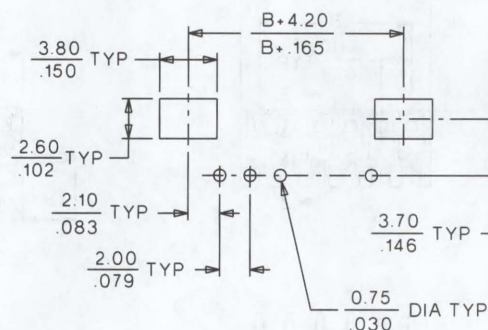
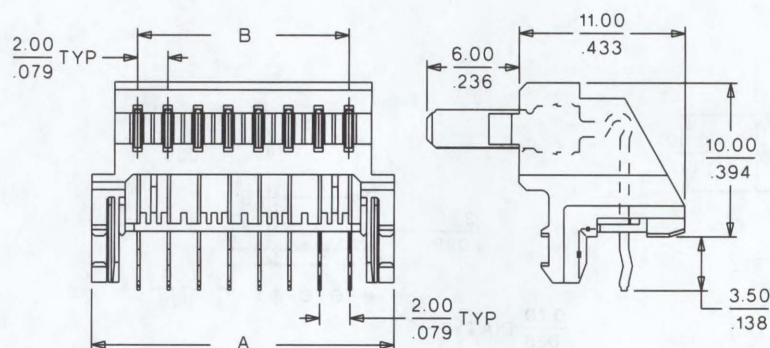


2.00mm (.079") Pitch Board-to-Board Header

53114 Floating-Type



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS : $\frac{1.60}{.063}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
6	53114-0610	16.00 (.629)	10.00 (.394)
7	53114-0710	18.00 (.708)	12.00 (.472)
8	53114-0810	20.00 (.787)	14.00 (.551)
9	53114-0910	22.00 (.866)	16.00 (.630)
10	53114-1010	24.00 (.944)	18.00 (.709)
11	53114-1110	26.00 (1.023)	20.00 (.787)
12	53114-1210	28.00 (1.102)	22.00 (.866)
13	53114-1310	30.00 (1.181)	24.00 (.944)
14	53114-1410	32.00 (1.259)	26.00 (1.023)
15	53114-1510	34.00 (1.338)	28.00 (1.102)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 5 to 15 circuits

Reference Information

Packaging: Tray
Mates With: 53064 and 53095
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

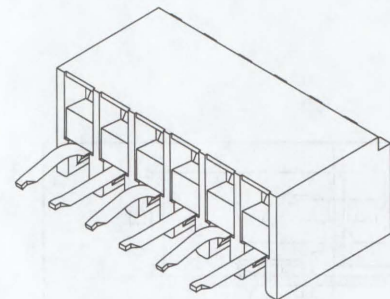
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Board-to-Board Receptacle

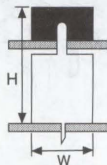
52084

Bottom Entry

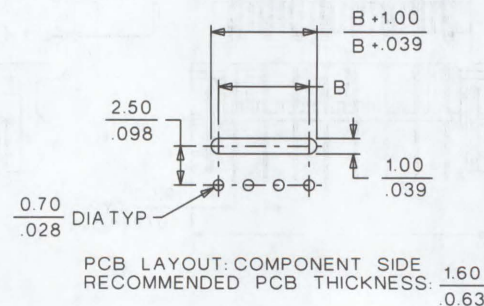
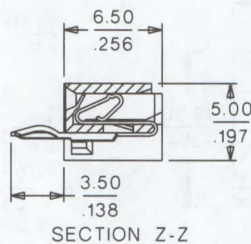
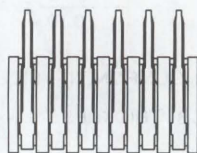
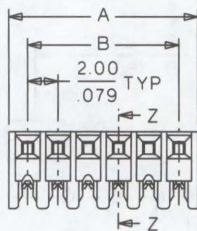


Mating Dimensions

52084 • 53064
H=27.1mm W=6.6mm



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
5	52084-0510	10.50 (.413)	8.00 (.315)
6	52084-0610	12.50 (.492)	10.00 (.394)
7	52084-0710	14.50 (.571)	12.00 (.472)
8	52084-0810	16.50 (.650)	14.00 (.551)
9	52084-0910	18.50 (.728)	16.00 (.630)
10	52084-1010	20.50 (.807)	18.00 (.709)
11	52084-1110	22.50 (.886)	20.00 (.787)
12	52084-1210	24.50 (.965)	22.00 (.866)
13	52084-1310	26.50 (1.043)	24.00 (.949)
14	52084-1410	28.50 (1.122)	26.00 (1.024)
15	52084-1510	30.50 (1.201)	28.00 (1.102)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 5 to 15 circuits

Reference Information

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 53064

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: Tin

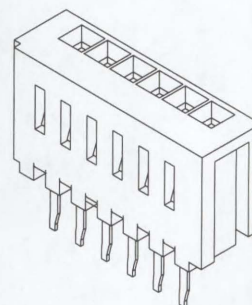
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Board-to-Board Receptacle

52075

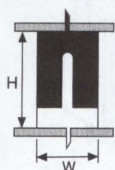
Vertical Stacking



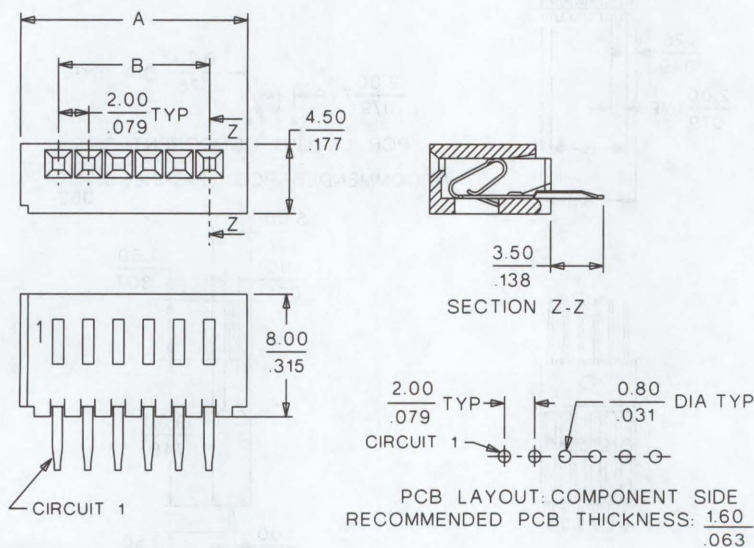
Mating Dimensions

52075 • 53064

H=27.0mm W=5.7mm



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
5	52075-0510	13.00 (.511)	8.00 (.314)
6	52075-0610	15.00 (.590)	10.00 (.393)
7	52075-0710	17.00 (.669)	12.00 (.472)
8	52075-0810	19.00 (.748)	14.00 (.551)
9	52075-0910	21.00 (.826)	16.00 (.629)
10	52075-1010	23.00 (.905)	18.00 (.708)
11	52075-1110	25.00 (.984)	20.00 (.787)
12	52075-1210	27.00 (1.062)	22.00 (.866)
13	52075-1310	29.00 (1.141)	24.00 (.944)
14	52075-1410	31.00 (1.220)	26.00 (1.023)
15	52075-1510	33.00 (1.299)	28.00 (1.102)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 5 to 10 circuits

Reference Information

Packaging: Bag
Mates With: 52075 and 52084
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

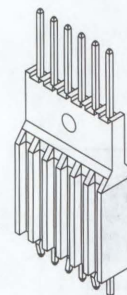
Housing: 6/6 nylon, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -40 to +105°C



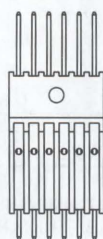
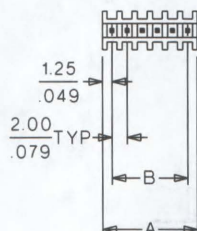
2.00mm (.079") Pitch Board-to-Board Header

53064

Vertical



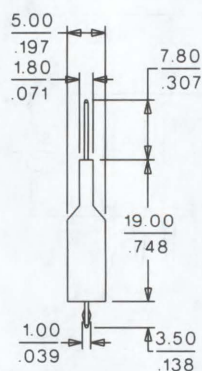
CATALOG DRAWING (FOR REFERENCE ONLY)



2.00
.079 TYP

0.70
.028 DIA TYP

PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 1.60
.063



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
5	53064-0510	10.50 (.413)	8.00 (.315)
6	53064-0610	12.50 (.492)	10.00 (.394)
7	53064-0710	14.50 (.571)	12.00 (.472)
8	53064-0810	16.50 (.650)	14.00 (.551)
9	53064-0910	18.50 (.728)	16.00 (.630)
10	53064-1010	20.50 (.807)	18.00 (.709)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 5 to 15 circuits

Reference Information

Packaging: Bag

Mates With: 52084

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Brass

Plating: Tin

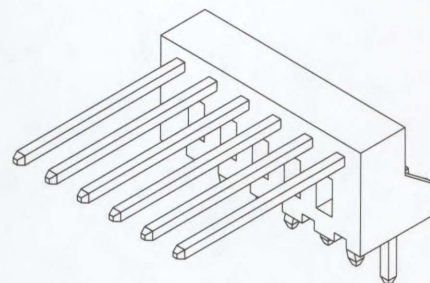
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Board-to-Board Header

53095

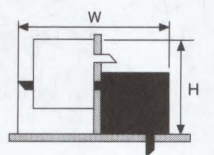
Right Angle



Mating Dimensions 1

53095 • 52084

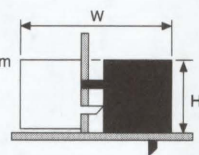
H=8.8mm W=15.05mm



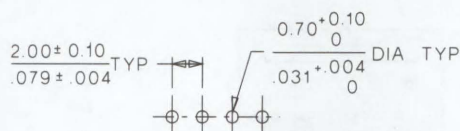
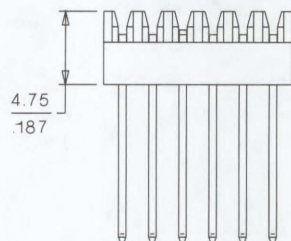
Mating Dimensions 2

53095 • 52084

H=5.55mm W=15.05mm

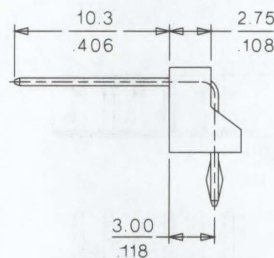
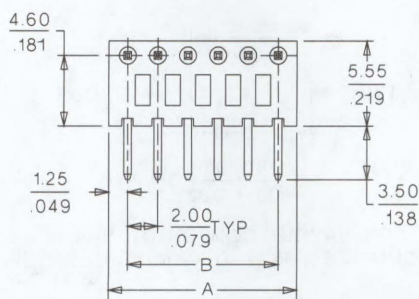


CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: $\frac{1.60 \pm 0.10}{.063 \pm .004}$



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
5	53095-0510	10.50 (.413)	8.00 (.315)
6	53095-0610	12.50 (.492)	10.00 (.394)
7	53095-0710	14.50 (.571)	12.00 (.472)
8	53095-0810	16.50 (.650)	14.00 (.551)
9	53095-0910	18.50 (.728)	16.00 (.630)
10	53095-1010	20.50 (.807)	18.00 (.709)
11	53095-1110	22.50 (.886)	20.00 (.787)
12	53095-1210	24.50 (.965)	22.00 (.866)
13	53095-1310	26.50 (1.043)	24.00 (.945)
14	53095-1410	28.50 (1.122)	26.00 (1.024)
15	53095-1510	30.50 (1.201)	28.00 (1.102)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 20 circuits

Reference Information

Packaging: Tray
Mates With: 53290
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

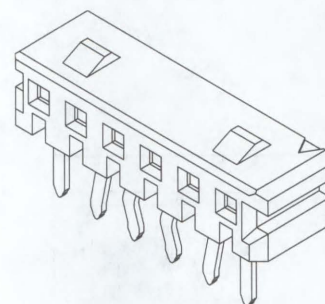
Housing: Glass-filled PBTP, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



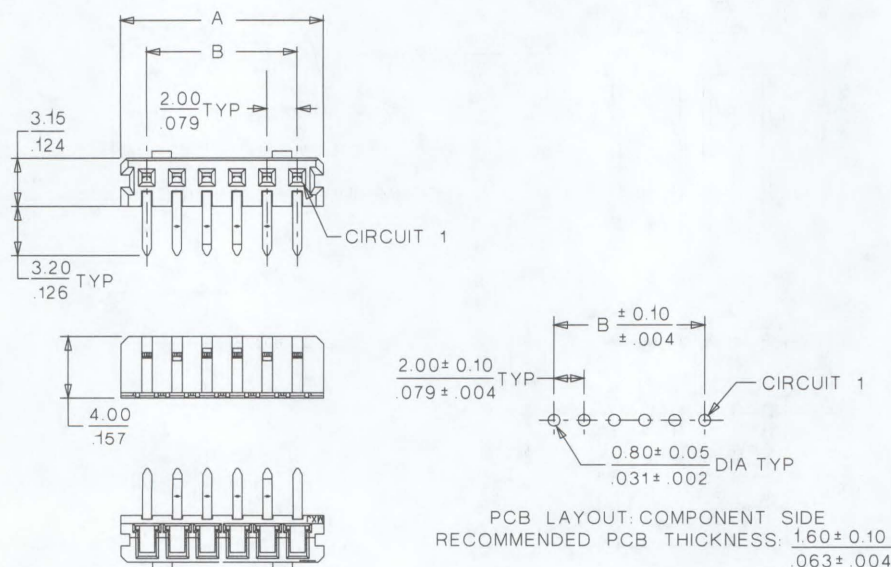
2.00mm (.079") Pitch Board-to-Board Receptacle

52418

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	52418-0310	7.50 (.295)	4.00 (.157)
4	52418-0410	9.50 (.374)	6.00 (.236)
5	52418-0510	11.50 (.453)	8.00 (.315)
6	52418-0610	13.50 (.531)	10.00 (.394)
7	52418-0710	15.50 (.610)	12.00 (.472)
8	52418-0810	17.50 (.689)	14.00 (.551)
9	52418-0910	19.50 (.768)	16.00 (.630)
10	52418-1010	21.50 (.846)	18.00 (.709)
11	52418-1110	23.50 (.925)	20.00 (.787)
12	52418-1210	25.50 (1.004)	22.00 (.866)
13	52418-1310	27.50 (1.083)	24.00 (.945)
14	52418-1410	29.50 (1.161)	26.00 (1.024)
15	52418-1510	31.50 (1.240)	28.00 (1.102)
16	52418-1610	33.50 (1.319)	30.00 (1.181)
17	52418-1710	35.50 (1.398)	32.00 (1.260)
18	52418-1810	37.50 (1.476)	34.00 (1.339)
19	52418-1910	39.50 (1.555)	36.00 (1.417)
20	52418-2010	41.50 (1.634)	38.00 (1.496)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 20 circuits
- Friction lock and kinked tails provide additional mating and PCB retention
- Non-kinked tails available; contact Molex

Reference Information

Packaging: Tray

Mates With: 52418

Designed In: Millimeters

Electrical

Voltage: 125V

Current: 1.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: Glass-filled PBTP, UL 94V-0

Contact: Brass

Plating: Tin

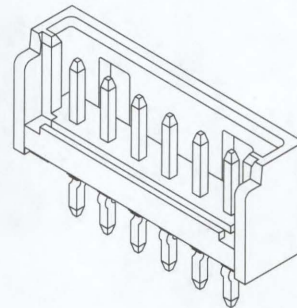
Operating Temperature: -40 to +105°C



2.00mm (.079") Pitch Board-to-Board Header

53290

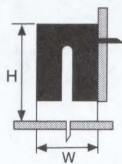
Vertical



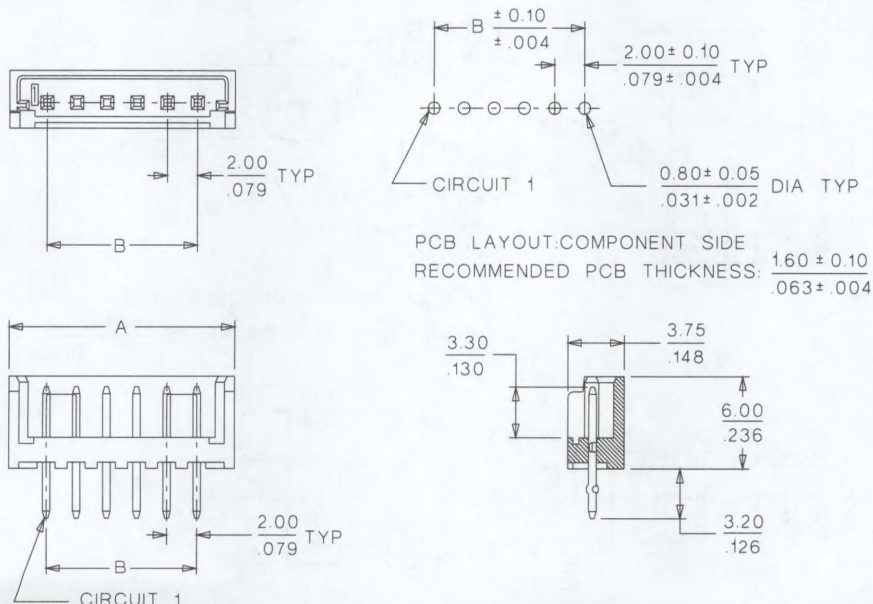
Mating Dimensions

53290 • 52418

H=6.0mm W=3.95mm



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	53290-0310	9.00 (.354)	4.00 (.157)
4	53290-0410	11.00 (.433)	6.00 (.236)
5	53290-0510	13.00 (.512)	8.00 (.315)
6	53290-0610	15.00 (.591)	10.00 (.394)
7	53290-0710	17.00 (.669)	12.00 (.472)
8	53290-0810	19.00 (.748)	14.00 (.551)
9	53290-0910	21.00 (.827)	16.00 (.630)
10	53290-1010	23.00 (.906)	18.00 (.709)
11	53290-1110	25.00 (.984)	20.00 (.787)
12	53290-1210	27.00 (1.063)	22.00 (.866)
13	53290-1310	29.00 (1.142)	24.00 (.945)
14	53290-1410	31.00 (1.220)	26.00 (1.024)
15	53290-1510	33.00 (1.299)	28.00 (1.102)
16	53290-1610	35.00 (1.378)	30.00 (1.181)
17	53290-1710	37.00 (1.457)	32.00 (1.260)
18	53290-1810	39.00 (1.535)	34.00 (1.339)
19	53290-1910	41.00 (1.614)	36.00 (1.417)
20	53290-2010	43.00 (1.693)	38.00 (1.496)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 20 circuits

Reference Information

Packaging: Bag
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.0A
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

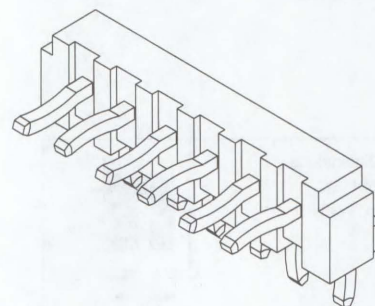
Housing: 6/6 nylon, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -40 to +85°C



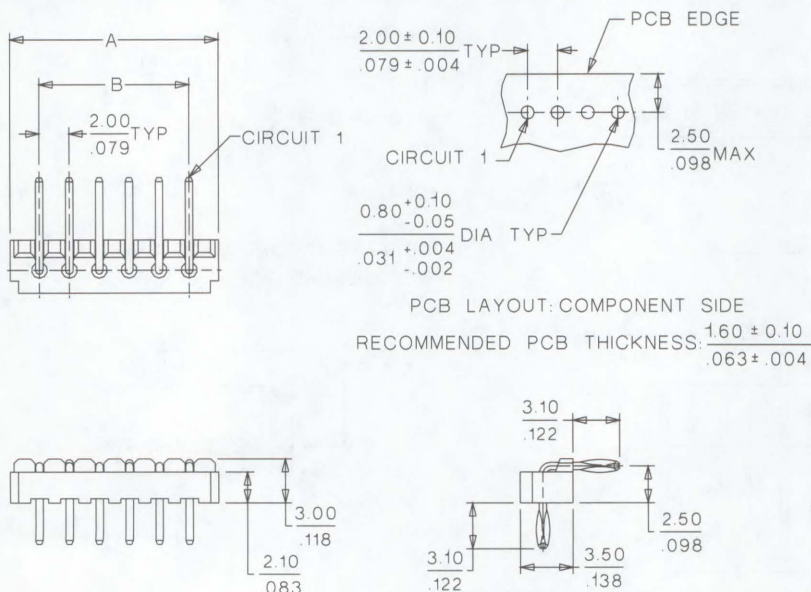
2.00mm (.079") Pitch Board-to-Board One-piece Header

5550-NA

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	39-27-0034	7.90 (.311)	4.00 (.157)
4	39-27-0044	9.90 (.389)	6.00 (.236)
5	39-27-0054	11.90 (.468)	8.00 (.314)
6	39-27-0064	13.90 (.547)	10.00 (.393)
7	39-27-0074	15.90 (.625)	12.00 (.472)
8	39-27-0084	17.90 (.704)	14.00 (.551)
9	39-27-0094	19.90 (.783)	16.00 (.629)
10	39-27-0104	21.90 (.862)	18.00 (.708)
11	39-27-0114	23.90 (.940)	20.00 (.787)
12	39-27-0124	25.90 (1.019)	22.00 (.866)
13	39-27-0134	27.90 (1.098)	24.00 (.944)
14	39-27-0144	29.90 (1.177)	26.00 (1.023)
15	39-27-0154	31.90 (1.255)	28.00 (1.102)
16	39-27-0164	33.90 (1.334)	30.00 (1.181)
17	39-27-0174	35.90 (1.413)	32.00 (1.259)
18	39-27-0184	37.90 (1.492)	34.00 (1.388)
19	39-27-0194	39.90 (1.570)	36.00 (1.417)
20	39-27-0204	41.90 (1.649)	38.00 (1.496)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 15 circuits
- 10,000 mating cycles for high durability
- Black-plated metal shell for ESD and anti-static protection
- Integral kinked metal PCB pegs provide grounding and PCB retention
- Gold-plating for reliable contact interface
- PCB pegs facilitate board placement

Reference Information

Product Specification: Contact Molex
Packaging: Tray
Mates With: 53533
Designed In: Millimeters

Electrical

Voltage: 125V
Current: 1.0A
Contact Resistance: 40mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 500 MΩ min.

Physical

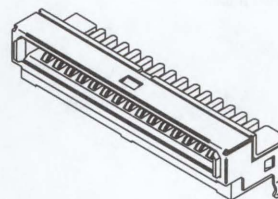
Housing: Black PBT, UL 94V-0
Contact: Phosphor Bronze
Plating: Contact Area—Gold
Solder Tail Area—Tin
Metal Shell: Phosphor Bronze, Black Nickel plating
Operating Temperature: -40 to +105°C



2.20mm (.086") Pitch Board-to-Board Receptacle

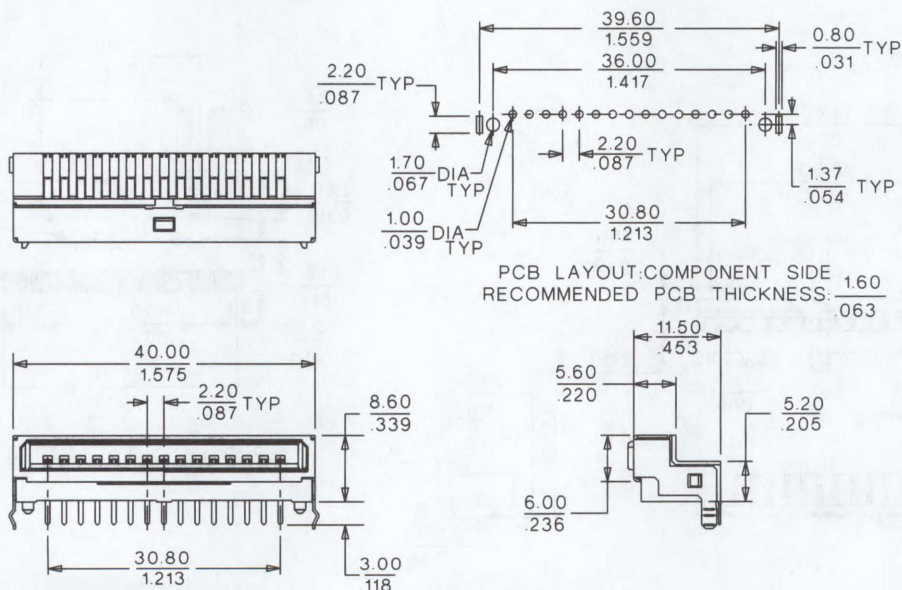
52820

Panel Detachable Type



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.
15	52820-1511

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 15 circuits
- 10,000 mating cycles for high durability
- Protected contacts prevent damage during mating
- Solder tabs provide additional PCB retention
- Visible SMT tails provide easy solder checking
- Gold-plating for reliable contact interface

Reference Information

Product Specification: Contact Molex
 Packaging: Tray
 Mates With: 52820
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 1.0A
 Contact Resistance: 40mΩ max.
 Dielectric Withstanding Voltage: 500V AC/1 min.
 Insulation Resistance: 500 MΩ min.

Physical

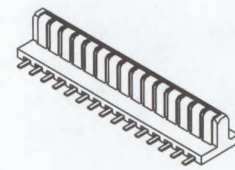
Housing: Black PBT, UL 94V-0
 Contact: Phosphor Bronze
 Plating: Contact Area—Gold
 Solder Tail Area—Tin
 Solder Tab: Phosphor Bronze, Tin plating
 Operating Temperature: -40 to +105°C



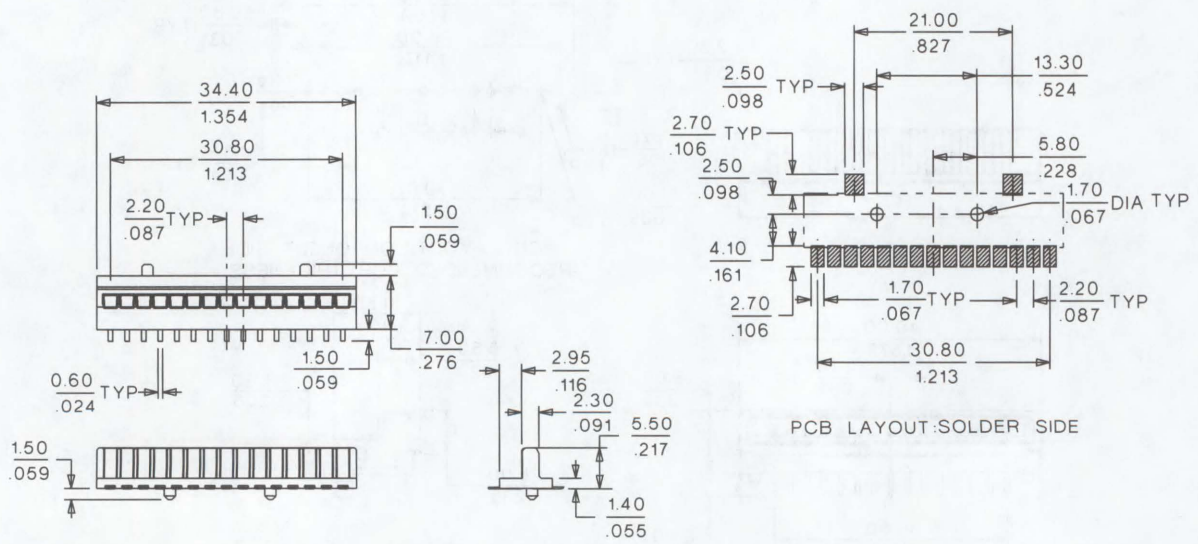
2.20mm (.086") Pitch Board-to-Board Header

53533

SMT, Panel Detachable Type



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.
15	53533-1511

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- Accepts 24 AWG solid and 7 strands ribbon cable
- 4 IDT contact points to cable with "O" crimp on insulation
- Keyed and polarized
- Color stripe for visual check

Reference Information

Product Specification: PS-99020-0018

Packaging: Ammo-Pak

Mates With: 90647 and 90649

Designed In: Millimeters

Electrical

Voltage: 250V DC max.

Current: 3.0A

Contact Resistance: 8mΩ max.

Insulation Resistance: 500 MΩ min.

Mechanical

Wire Pull-Out Force: 20N (horizontal)/20N (vertical)

Mating Force: 5N max.

Unmating Force: 3N min.

Durability: 15 cycles

Physical

Housing: 7.5% glass-filled polyester, UL 94V-0

Contact: Phosphor Bronze

Plating: 1-3μm Tin/Lead

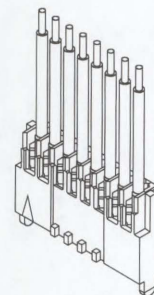
Operating Temperature: -25 to +85°C



2.50mm (.098") Pitch User Friendly Wire-To-Board Receptacle

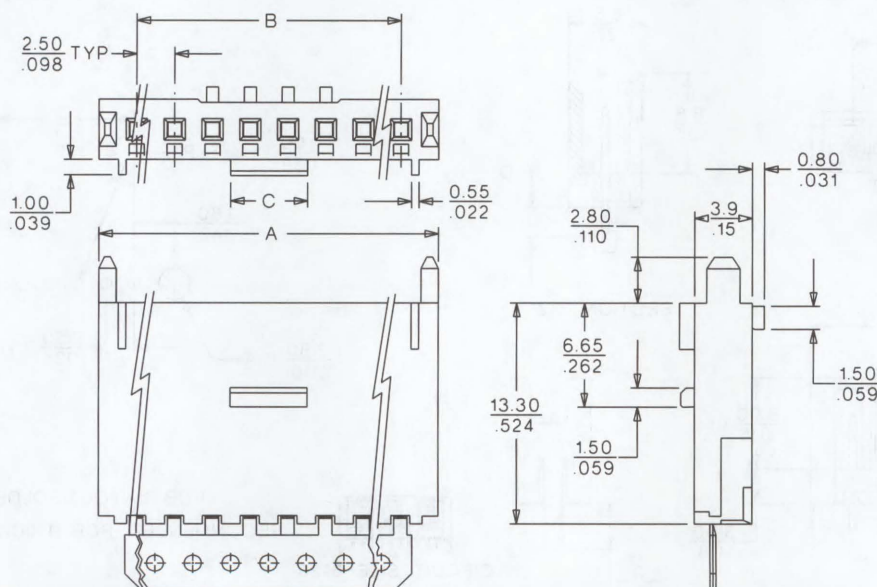
90650

IDT



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	90650-0001	7.50 (.295)	2.50 (.098)	1.20 (.047)
3	90650-0005	10.00 (.394)	5.00 (.197)	3.15 (.124)
4	90650-0009	12.50 (.492)	7.50 (.295)	5.00 (.197)
5	90650-0013	15.00 (.591)	10.00 (.394)	5.00 (.197)
6	90650-0017	17.50 (.689)	12.50 (.492)	5.00 (.197)
7	90650-0021	20.00 (.787)	15.00 (.591)	5.00 (.197)
8	90650-0025	22.50 (.886)	17.50 (.689)	5.00 (.197)
9	90650-0029	25.00 (.984)	20.00 (.787)	5.00 (.197)
10	90650-0033	27.50 (1.083)	22.50 (.886)	5.00 (.197)
11	90650-0036	30.00 (1.181)	25.00 (.984)	5.00 (.197)

Circuits	Order No.	Dimension		
		A	B	C
12	90650-0039	32.50 (1.280)	27.50 (1.083)	5.00 (.197)
13	90650-0042	35.00 (1.378)	30.00 (1.181)	5.00 (.197)
14	90650-0045	37.50 (1.476)	32.50 (1.280)	5.00 (.197)
15	90650-0060	40.00 (1.575)	35.00 (1.378)	5.00 (.197)
16	90650-0061	42.50 (1.673)	37.50 (1.476)	5.00 (.197)
17	90650-0062	45.00 (1.772)	40.00 (1.575)	5.00 (.197)
18	90650-0063	47.50 (1.878)	42.50 (1.673)	5.00 (.197)
19	90650-0064	50.00 (1.969)	45.00 (1.772)	5.00 (.197)
20	90650-0065	52.50 (2.067)	47.50 (1.870)	5.00 (.197)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- Straight in-line on 2.5mm
- Polarized board snap-in pegs
- Polarized with respect to mating part
- Color stripe for visual check
- Locking latch

Reference Information

Product Specification: PS-99020-0018
 Packaging: Bag
 Mates With: 90650
 Designed In: Millimeters

Electrical

Voltage: 250V DC max.
 Current: 3.0A
 Contact Resistance: 8mΩ max.
 Dielectrical Withstanding Voltage: 1000V AC
 Insulation Resistance: 500 MΩ min.

Mechanical

Contact Retention to Housing: 35N per contact min.
 Mating Force: 5N max. per contact
 Unmating Force: 3N min. per contact
 Durability: 15 cycles

Physical

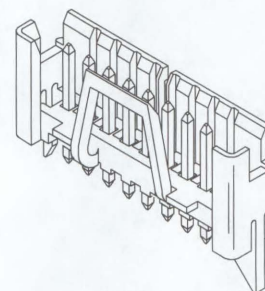
Housing: Polyester, UL 94V-0
 Contact: Brass
 Plating: 3μm Tin/Lead
 Operating Temperature: -25 to +85°C



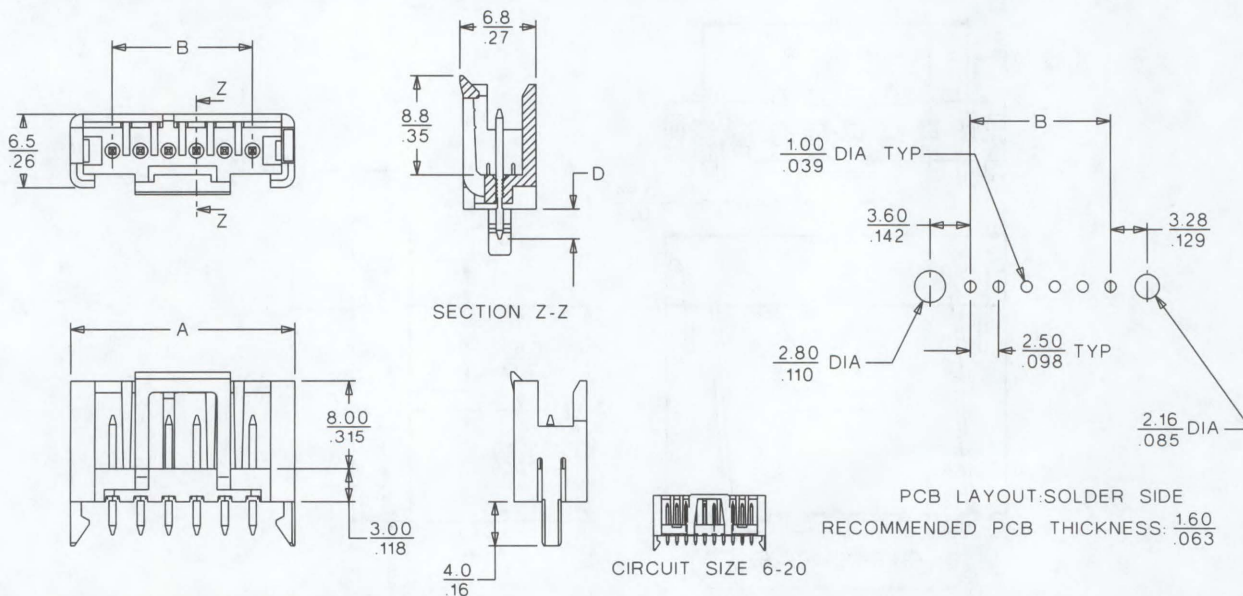
2.50mm (.098") Pitch User Friendly Wire-To-Board Header

90647

Vertical, Latched



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	90647-1002	10.00 (.394)	2.50 (.098)
3	90647-1003	12.50 (.492)	5.00 (.197)
4	90647-1004	15.00 (.591)	7.50 (.295)
5	90647-1005	17.50 (.689)	10.00 (.394)
6	90647-1006	20.00 (.787)	12.50 (.492)
7	90647-1007	22.50 (.886)	15.00 (.591)
8	90647-1008	25.00 (.984)	17.50 (.689)
9	90647-1009	27.50 (1.083)	20.00 (.787)
10	90647-1010	30.00 (1.181)	22.50 (.886)
11	90647-1011	32.50 (1.280)	25.00 (.984)

Circuits	Order No.	Dimension	
		A	B
12	90647-1012	35.00 (1.380)	27.50 (1.083)
13	90647-1013	37.50 (1.476)	30.00 (1.181)
14	90647-1014	40.00 (1.575)	32.50 (1.280)
15	90647-1415	42.50 (1.673)	35.00 (1.378)
16	90647-1416	45.00 (1.772)	37.50 (1.476)
17	90647-1417	47.50 (1.870)	40.00 (1.575)
18	90647-1418	50.00 (1.969)	42.50 (1.673)
19	90647-1419	52.50 (2.067)	45.00 (1.772)
20	90647-1420	55.00 (2.165)	47.50 (1.870)

Order Numbers reflect standard Dimension D 2.50 (.099)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- Right angle in-line on 2.5mm pitch
- Polarized board snap-in pegs
- Polarized with respect to mating part
- Color stripe for visual check
- Locking latch

Reference Information

Product Specification: PS-99020-0018

Packaging: Bag

Mates With: 90650

Designed In: Millimeters

Electrical

Voltage: 250V DC max.

Current: 3.0A

Contact Resistance: 8mΩ max.

Insulation Resistance: 500 MΩ min.

Mechanical

Mating Force: 5N max.

Unmating Force: 3N min.

Durability: 15 cycles

Physical

Housing: Polyester, UL 94V-0

Contact: Brass

Plating: 3μm Tin/Lead

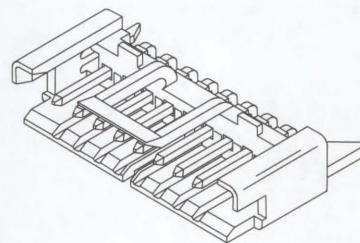
Operating Temperature: -25 to +85°C



2.50mm (.098") Pitch User Friendly Wire-to-Board Header

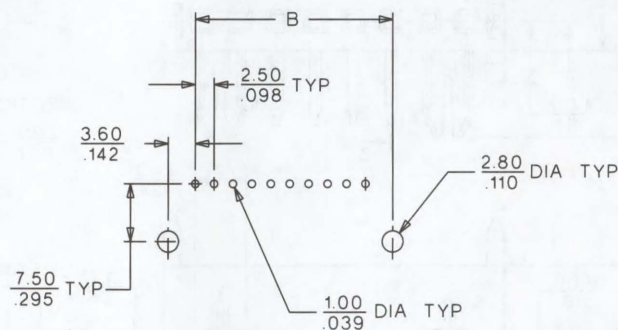
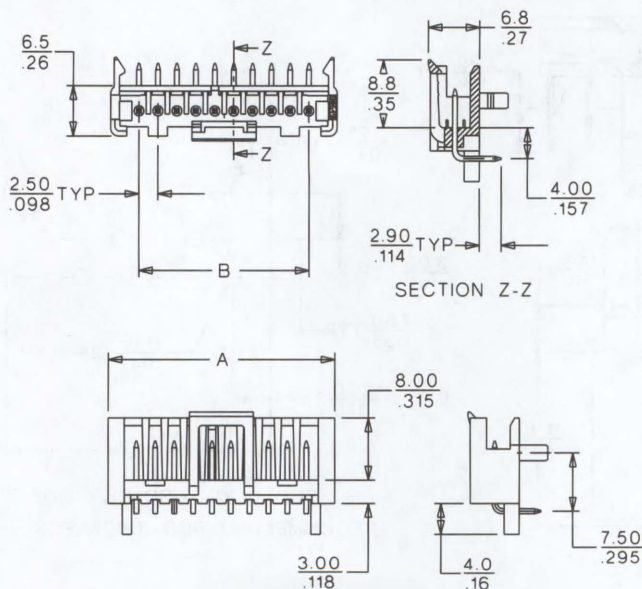
90649

Right Angle, Latched



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: SOLDER SIDE

RECOMMENDED PCB THICKNESS: $\frac{1.60}{.063}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	90649-1002	10.00 (.394)	2.50 (.098)
3	90649-1003	12.50 (.492)	5.00 (.197)
4	90649-1004	15.00 (.591)	7.50 (.295)
5	90649-1005	17.50 (.689)	10.00 (.394)
6	90649-1006	20.00 (.787)	12.50 (.492)
7	90649-1007	22.00 (.886)	15.00 (.591)
8	90649-1008	25.00 (.984)	17.50 (.689)
9	90649-1009	27.50 (1.083)	20.00 (.787)
10	90649-1010	30.00 (1.181)	22.50 (.886)
11	90649-1011	32.50 (1.280)	25.00 (.984)

Circuits	Order No.	Dimension	
		A	B
12	90649-1012	35.00 (1.380)	27.50 (1.083)
13	90649-1013	37.50 (1.476)	30.00 (1.181)
14	90649-1014	40.00 (1.575)	32.50 (1.280)
15	90649-1415	42.50 (1.673)	35.00 (1.378)
16	90649-1416	45.00 (1.772)	37.50 (1.476)
17	90649-1417	47.50 (1.870)	40.00 (1.575)
18	90649-1418	50.00 (1.969)	42.50 (1.673)
19	90649-1419	52.50 (2.067)	45.00 (1.772)
20	90649-1420	55.00 (2.165)	47.50 (1.870)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- Staggered solder tails: 2.50 x 2.50mm
- Board retention pegs
- Polarized to header and to PCB

Reference Information

Product Specification: 99020-0018

Packaging: Tray

Mates With: 90648

Designed In: Millimeters

Electrical

Voltage: 250V DC max.

Current: 3.0A

Contact Resistance: 8mΩ max.

Insulation Resistance: 500 MΩ min.

Mechanical

Contact Retention to Housing: 15N per contact min.

Mating Force: 5N max.

Unmating Force: 3N min.

Durability: 15 cycles

Physical

Housing: Polyester, UL 94V-0

Contact: Phosphor Bronze

Plating: 3μm Tin/Lead

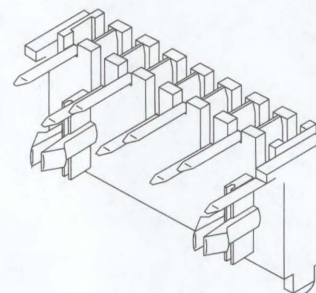
Operating Temperature: -25 to +85°C



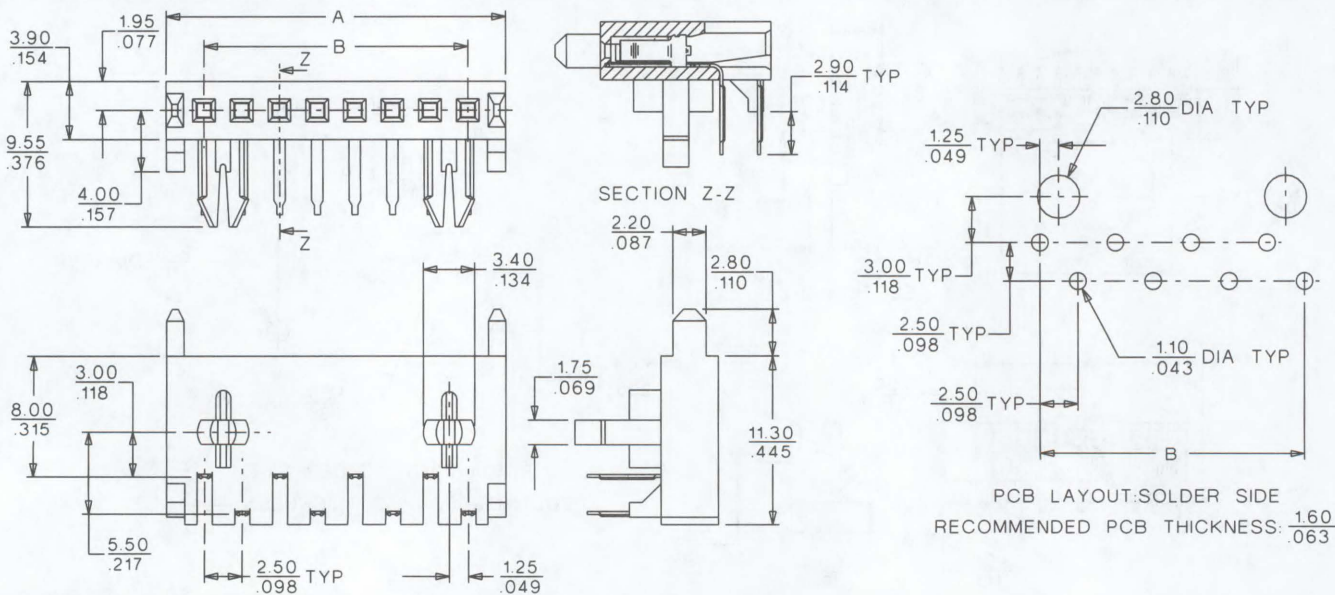
2.50mm (.098") Pitch User Friendly Board-To-Board Receptacle

90651

Right Angle, Unlatched



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	90651-0002	7.50 (.295)	2.50 (.098)
3	90651-0003	10.00 (.394)	5.00 (.197)
4	90651-0004	12.50 (.492)	7.50 (.295)
5	90651-0005	15.00 (.591)	10.00 (.394)
6	90651-0006	17.50 (.689)	12.50 (.492)
7	90651-0007	20.00 (.787)	15.00 (.591)
8	90651-0008	22.50 (.886)	17.50 (.689)
9	90651-0009	25.00 (.984)	20.00 (.787)
10	90651-0010	27.50 (1.083)	22.50 (.886)
11	90651-0011	30.00 (1.181)	25.00 (.984)

Circuits	Order No.	Dimension	
		A	B
12	90651-0012	32.50 (1.280)	27.50 (1.083)
13	90651-0013	35.00 (1.378)	30.00 (1.181)
14	90651-0014	37.50 (1.476)	32.50 (1.280)
15	90651-0015	40.00 (1.575)	35.00 (1.378)
16	90651-0016	42.50 (1.673)	37.50 (1.476)
17	90651-0017	45.00 (1.772)	40.00 (1.575)
18	90651-0018	47.50 (1.878)	42.50 (1.673)
19	90651-0019	50.00 (1.969)	45.00 (1.772)
20	90651-0020	52.50 (2.067)	47.50 (1.870)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- Straight in-line in on: 2.5mm
- Polarized board snap-in pegs
- Polarized to female

Reference Information

Product Specification: 99020-0018
Packaging: Bag
Mates With: 90651
Designed In: Millimeters

Electrical

Voltage: 250V DC max.
Current: 3.0A
Contact Resistance: 8mΩ max.
Insulation Resistance: 500 MΩ min.

Mechanical

Contact Retention to Housing: 35N per pin
Mating Force: 5N max. per contact
Unmating Force: 3N min. per contact
Durability: 15 cycles

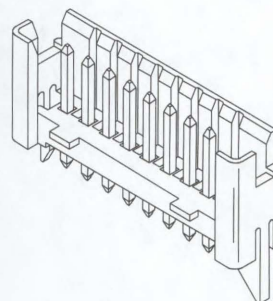
Physical

Housing: Polyester, UL 94V-0
Contact: Brass
Plating: 3μm Tin/Lead
Operating Temperature: -25 to +85°C

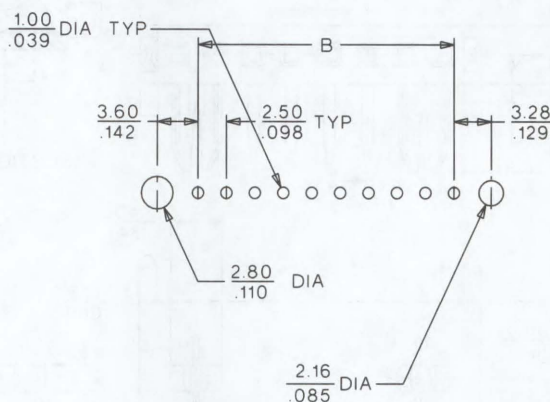
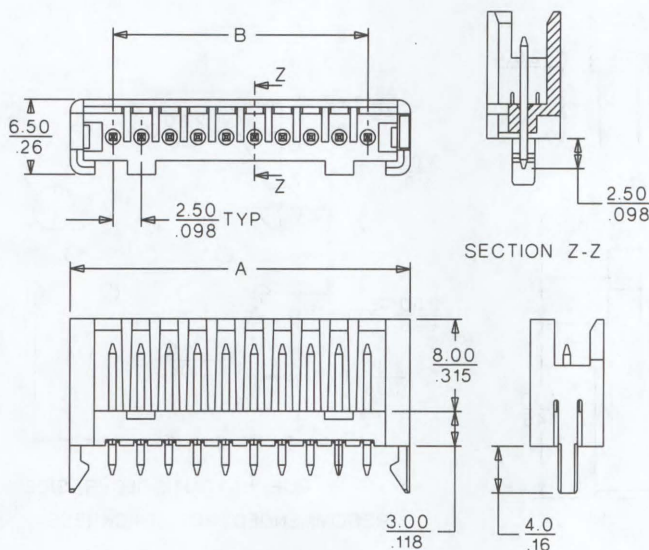


2.50mm (.098") Pitch User Friendly Board-to-Board Header

90648
Vertical, Unlatched



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: SOLDER SIDE
RECOMMENDED PCB THICKNESS: 1.60/.063

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	90648-1002	10.00 (.394)	2.50 (.098)
3	90648-1003	12.50 (.492)	5.00 (.197)
4	90648-1004	15.00 (.591)	7.50 (.295)
5	90648-1005	17.50 (.689)	10.00 (.394)
6	90648-1006	20.00 (.787)	12.50 (.492)
7	90648-1007	22.50 (.886)	15.00 (.591)
8	90648-1008	25.00 (.984)	17.50 (.689)
9	90648-1009	27.50 (1.083)	20.00 (.787)
10	90648-1010	30.00 (1.181)	22.50 (.886)
11	90648-1011	32.50 (1.280)	25.00 (.984)

Circuits	Order No.	Dimension	
		A	B
12	90648-1012	35.00 (1.380)	27.50 (1.083)
13	90648-1013	37.50 (1.476)	30.00 (1.181)
14	90648-1014	40.00 (1.575)	32.50 (1.280)
15	90648-1015	42.50 (1.673)	35.00 (1.378)
16	90648-1016	45.00 (1.772)	37.50 (1.476)
17	90648-1017	47.50 (1.870)	40.00 (1.575)
18	90648-1018	50.00 (1.969)	42.50 (1.673)
19	90648-1019	52.50 (2.067)	45.00 (1.772)
20	90648-1020	55.00 (2.165)	47.50 (1.870)

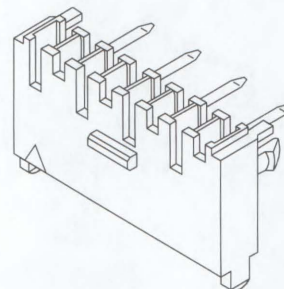
2.00 to 2.50mm (.079 to .098") Pitch

B



2.50mm (.098") Pitch User Friendly Board-To-Board Receptacle

90783
Right Angle, Latched



FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 7 to 20 circuits
- Staggered solder tails: 2.50 x 2.50mm
- Board retention pegs
- Polarized to header and to PCB
- Locking ramp

Reference Information

Product Specification: 99020-0018

Packaging: Tray

Mates With: 90784

Designed In: Millimeters

Electrical

Voltage: 250V DC max.

Current: 3.0A

Contact Resistance: 8mΩ max.

Insulation Resistance: 500 MΩ min.

Mechanical

Contact Retention to Housing: 15N per contact min.

Mating Force: 5N max.

Unmating Force: 3N min.

Durability: 15 cycles

Physical

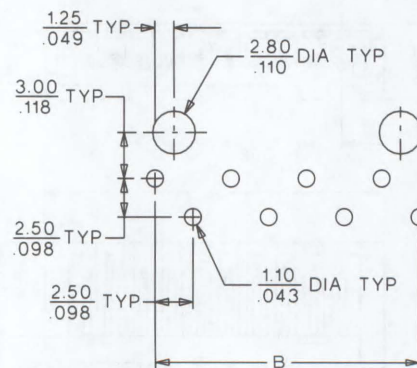
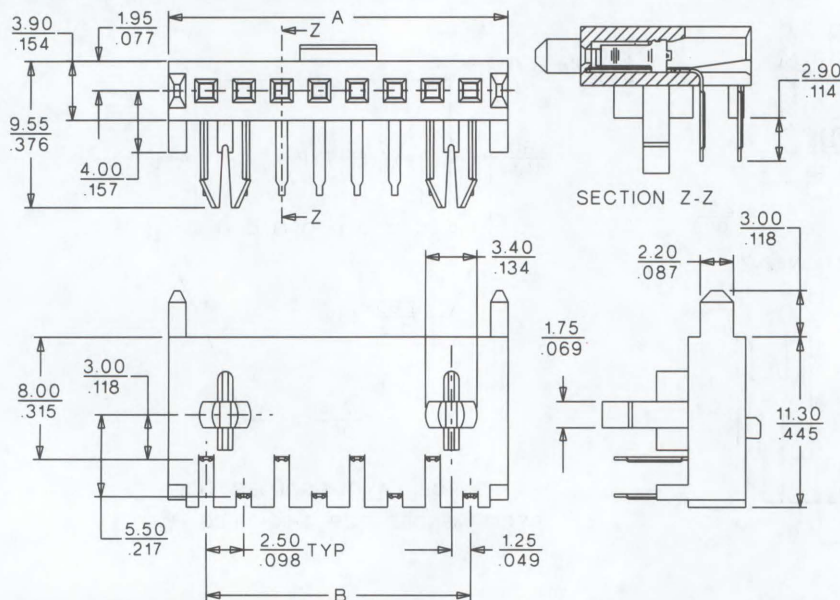
Housing: Polyester, UL 94V-0

Contact: Phosphor Bronze

Plating: 2.5 to 4.5μm Tin/Lead

Operating Temperature: -25 to +85°C

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
7	90783-0007	20.00 (.787)	15.00 (.591)
8	90783-0008	22.50 (.886)	17.50 (.689)
9	90783-0009	25.00 (.984)	20.00 (.787)
10	90783-0010	27.50 (1.083)	22.50 (.886)
11	90783-0011	30.00 (1.181)	25.00 (.984)
12	90783-0012	32.50 (1.280)	27.50 (1.083)
13	90783-0013	35.00 (1.378)	30.00 (1.181)
14	90783-0014	37.50 (1.476)	32.50 (1.280)
15	90783-0015	40.00 (1.575)	35.00 (1.378)
16	90783-0016	42.50 (1.673)	37.50 (1.476)
17	90783-0017	45.00 (1.772)	40.00 (1.575)
18	90783-0018	47.50 (1.870)	42.50 (1.673)
19	90783-0019	50.00 (1.969)	45.00 (1.772)
20	90783-0020	52.50 (2.067)	47.50 (1.870)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 7 to 20 circuits
- Straight in-line in on 2.50mm
- Polarized board snap-in pegs
- Polarized to female
- Locking latch

Reference Information

Product Specification: 99020-0018
Packaging: Bag
Mates With: 90783
Designed In: Millimeters

Electrical

Voltage: 250V DC max.
Current: 3.0A
Contact Resistance: 8mΩ max.
Insulation Resistance: 500 MΩ min.

Mechanical

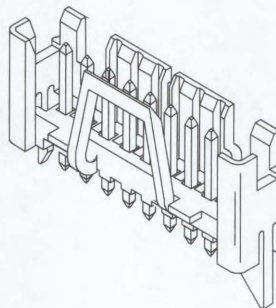
Contact Retention to Housing: 35N per contact min.
Mating Force: 5N max.
Unmating Force: 3N min.
Durability: 15 cycles

Physical

Housing: 15% glass-filled polyester, UL 94V-0
Contact: Brass
Plating: 3μm Tin/Lead
Operating Temperature: -25 to +85°C

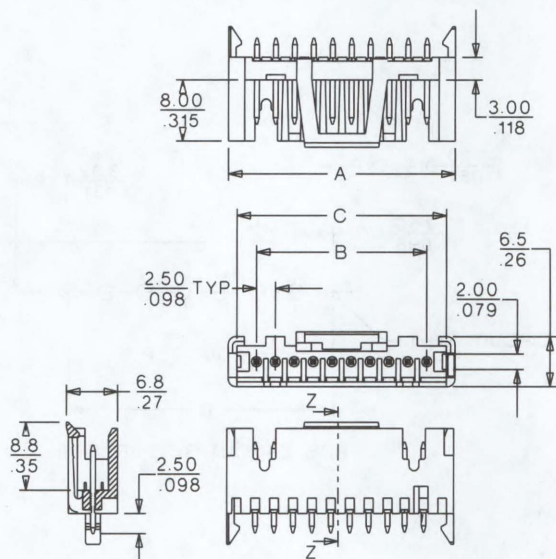
molex® 2.50mm (.098") Pitch User Friendly Board-To-Board Header

90784
Vertical, Latched

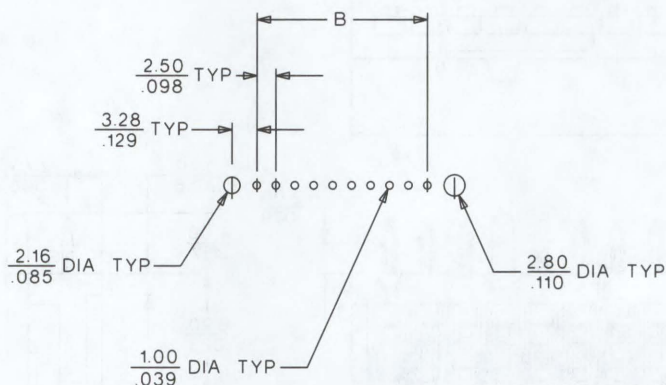


2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



SECTION Z-Z



PCB LAYOUT: SOLDER SIDE
RECOMMENDED PCB THICKNESS: $\frac{1.60}{.063}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
7	90784-1007	22.50 (.886)	15.00 (.591)	20.20 (.795)
8	90784-1008	25.00 (.984)	17.50 (.689)	22.70 (.894)
9	90784-1009	27.50 (1.083)	20.00 (.787)	25.20 (.992)
10	90784-1010	30.00 (1.181)	22.50 (.886)	27.70 (1.090)
11	90784-1011	32.50 (1.280)	25.00 (.984)	30.20 (1.189)
12	90784-1012	35.00 (1.380)	27.50 (1.083)	32.70 (1.287)
13	90784-1013	37.50 (1.476)	30.00 (1.181)	35.20 (1.386)
14	90784-1014	40.00 (1.575)	32.50 (1.280)	37.70 (1.484)
15	90784-1015	42.50 (1.673)	35.00 (1.378)	40.20 (1.583)
16	90784-1016	45.00 (1.772)	37.50 (1.476)	42.70 (1.681)
17	90784-1017	47.50 (1.870)	40.00 (1.575)	45.20 (1.779)
18	90784-1018	50.00 (1.969)	42.50 (1.673)	47.70 (1.878)
19	90784-1019	52.50 (2.067)	45.00 (1.772)	50.20 (1.979)
20	90784-1020	55.00 (2.165)	47.50 (1.870)	52.70 (2.075)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 16 circuits plus 20 circuit
- For permanent board connections
- Solder terminal with retention tail
- Accepts 24 AWG solid and 7 strands ribbon cable
- 4 IDT contact points to cable with "O" crimp on insulation
- Polarized to PCB with locating peg

Reference Information

Product Specification: 99020-0018

Packaging: "Ammo-Pak"

Designed In: Millimeters

Electrical

Voltage: 250V DC max.

Current: 3.0A

Contact Resistance: 8mΩ max.

Insulation Resistance: 500 MΩ min.

Mechanical

Wire Pull-Out Force: 15N

Physical

Housing: Polyester, UL 94V-0

Contact: Phosphor Bronze

Plating: 2.5 to 4.5μm Tin/Lead

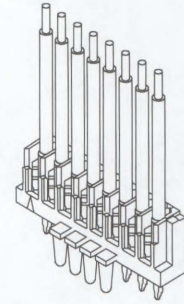
Operating Temperature: -25 to +85°C



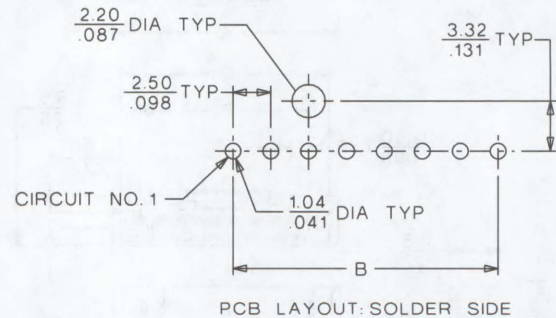
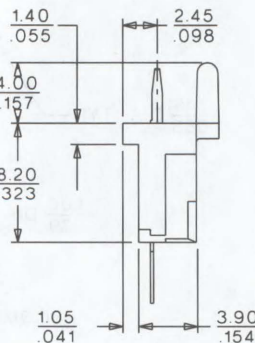
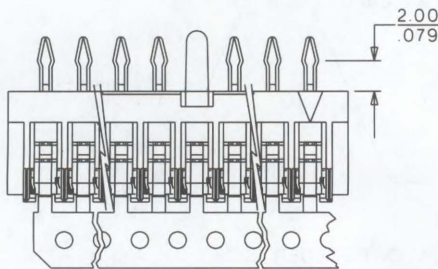
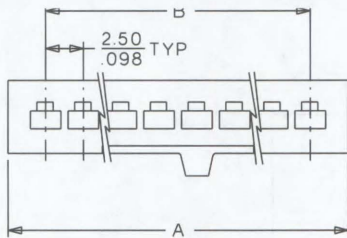
2.50mm (.098") Pitch User Friendly Board-In Connector

91226

IDT



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Key and PCB Hole Position	Dimension	
			A	B
2	91226-0001	1	7.50 (.295)	2.50 (.098)
3	91226-0004	1	10.00 (.394)	5.00 (.197)
4	91226-0008	1	12.50 (.492)	7.50 (.295)
5	91226-0012	1	15.00 (.591)	10.00 (.394)
6	91226-0016	2	17.50 (.689)	12.50 (.492)
7	91226-0020	2	20.00 (.787)	15.00 (.591)
8	91226-0024	3	22.50 (.886)	17.50 (.689)
9	91226-0028	3	25.00 (.984)	20.00 (.787)
10	91226-0032	4	27.50 (1.083)	22.50 (.886)
11	91226-0035	4	30.00 (1.181)	25.00 (.984)
12	91226-0038	5	32.50 (1.280)	27.50 (1.083)
13	91226-0041	5	35.00 (1.378)	30.00 (1.181)
14	91226-0044	6	37.50 (1.476)	32.50 (1.280)
15	91226-0059	7	40.00 (1.574)	35.00 (1.378)
16	91226-0060		42.50 (1.674)	37.50 (1.478)
20	91226-0061		52.50 (2.067)	45.50 (1.870)

Application Tooling	Part No.
Hand Tool (changehead)	69008-0290
Hand Tool (pistol)	69008-0210
Bench Press (wire)	AM-63179
Bench Press (cable)	AM-63171
Semi-Automatic	AM-63166
Fully-Automatic	Contact Factory

FEATURES AND SPECIFICATIONS

Features and Benefits

- Very low profile
- Anti-fishhooking design
- Box protects pin contact area from contamination during handling

Reference Information

Packaging: Bag or reel
Tooling Information: See end of section
Use With: 5264 housings
Designed In: Millimeters

Electrical

Voltage: 250V
Current:

AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



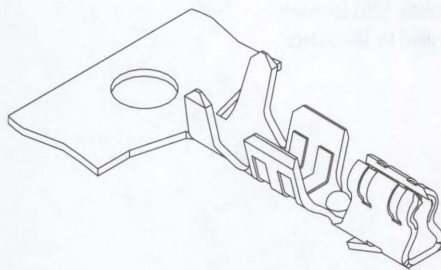
2.50mm (.098") Pitch

SPOX™

Wire-to-Board
Crimp Terminal

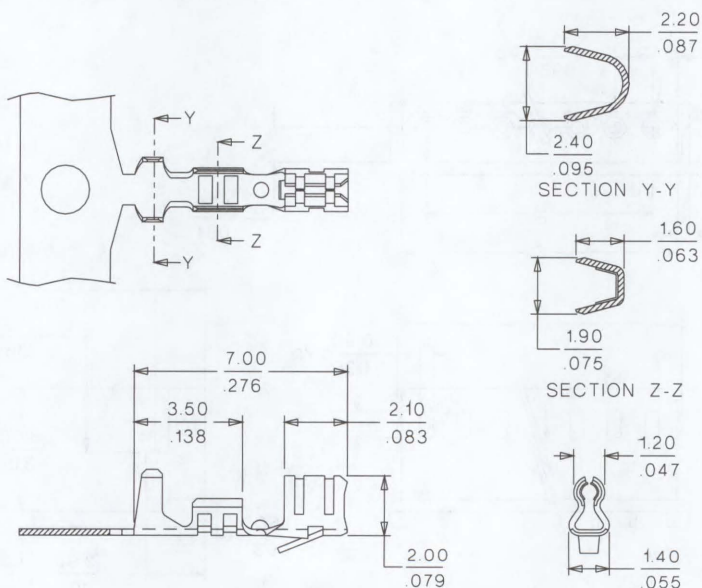
5263

Spring Box



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Order No.	Terminal	Engineering No.	Wire Range AWG	Insulation Diameter
08-70-1039	Reel	5263PBT	22-28	1.90 (.075) max.
08-70-1040	Bag	5263PBTB		

B
2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Very low profile
- Molded-in pull tabs
- Friction lock

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5267-NA-X and 5268-NA
Use With: 5263 terminals
Designed In: Millimeters



2.50mm (.098") Pitch SPOX™ Wire-to-Board Crimp Terminal Housing

5264-N
Shrouded

Electrical

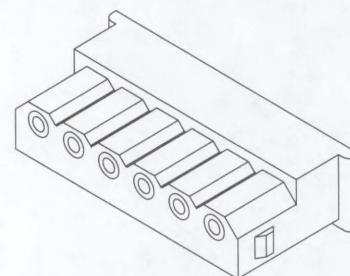
Voltage: 250V
Current:

AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

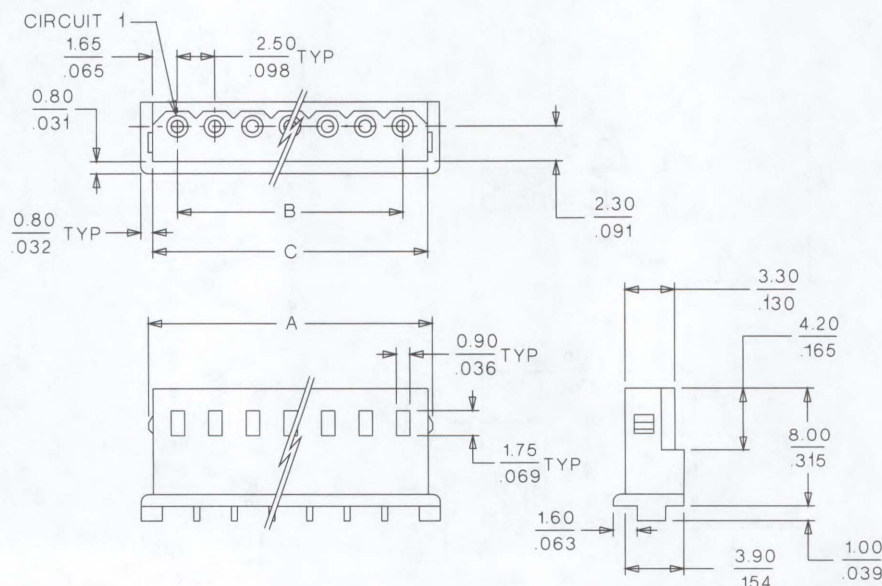
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0
Operating Temperature: -40 to +105°C



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	50-37-5023	6.40 (.252)	2.50 (.098)	5.80 (.228)
3	50-37-5033	8.90 (.350)	5.00 (.197)	8.30 (.327)
4	50-37-5043	11.40 (.449)	7.50 (.295)	10.80 (.425)
5	50-37-5053	13.90 (.547)	10.00 (.394)	13.30 (.524)
6	50-37-5063	16.40 (.646)	12.50 (.492)	15.80 (.622)
7	50-37-5073	18.90 (.744)	15.00 (.591)	18.30 (.720)
8	50-37-5083	21.40 (.843)	17.50 (.689)	20.80 (.819)
9	50-37-5093		20.00 (.787)	23.30 (.917)
10	50-37-5103		22.50 (.886)	25.80 (1.016)
11	50-37-5113		25.00 (.984)	28.30 (1.114)
12	50-37-5123		27.50 (1.083)	30.80 (1.213)
13	50-37-5133		30.00 (1.181)	33.30 (1.311)
14	50-37-5143		32.50 (1.280)	35.80 (1.409)
15	50-37-5153		35.00 (1.378)	38.30 (1.508)

FEATURES AND SPECIFICATIONS

Features and Benefits

- In-line IDT termination
- Integral crimped strain relief
- Connections supplied on terminal carrier strip for application tooling

Reference Information

Product Specification: PS-42219

Packaging: Strip

UL File No.: E29179

CSA File No.: LR19980

Mates With: 5267, 5268, 42249 and 42267 headers

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC

Insulation Resistance: 1000 MΩ min.

Mechanical

Wire Pull-Out Force: See SMES 42219-0002

Mating Force: 1.8kg max. per contact

Unmating Force: 0.15kg min. per contact

Durability: 25 cycles

Physical

Housing: White Polyester, UL 94V-0

Contact: Phosphor Bronze

Plating: Tin/Lead

Operating Temperature: 0 to +75°C

Wire Accommodation: 24 AWG solid or stranded with topcoat or 26 AWG stranded with topcoat



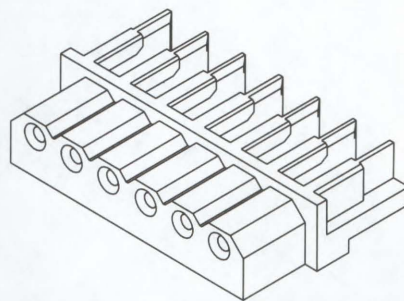
2.50mm (.098") Pitch

SPOX™

Wire-to-Board
Connector

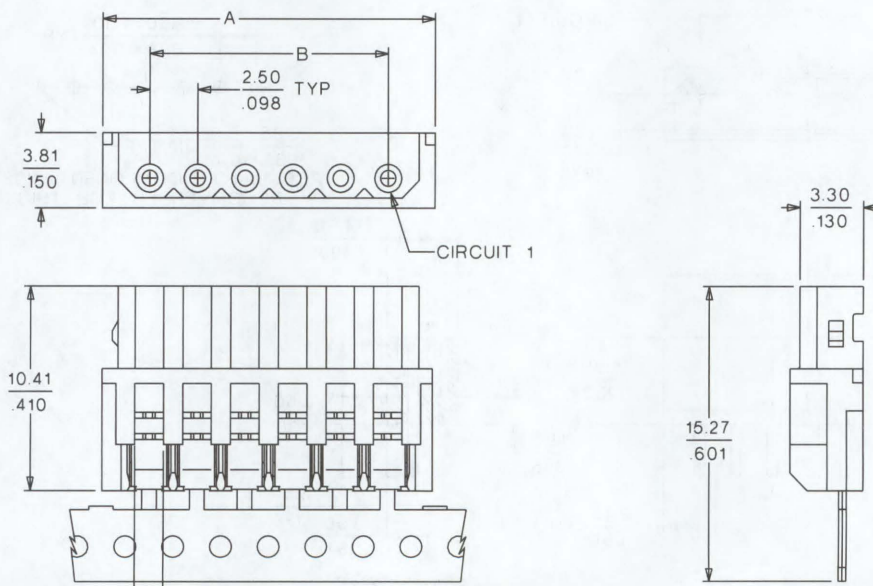
42219

IDT
Spring Box



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 22-43-3020	7.40 (.291)	2.50 (.098)
3	• 22-43-3030	9.90 (.390)	5.00 (.197)
4	• 22-43-3040	12.40 (.488)	7.50 (.295)
5	• 22-43-3050	14.90 (.587)	10.00 (.394)
6	• 22-43-3060	17.40 (.685)	12.50 (.492)
7	• 22-43-3070	19.90 (.783)	15.00 (.591)
8	• 22-43-3080	22.40 (.882)	17.50 (.689)
9	• 22-43-3090	24.90 (.980)	20.00 (.787)
10	• 22-43-3100	27.40 (1.079)	22.50 (.886)
11	• 22-43-3110	29.90 (1.117)	25.00 (.984)
12	• 22-43-3120	32.40 (1.276)	27.50 (1.082)
13	• 22-43-3130	34.90 (1.374)	30.00 (1.181)
14	• 22-43-3140	37.40 (1.472)	32.50 (1.279)
15	• 22-43-3150	39.90 (1.571)	35.00 (1.378)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- 0.70mm (.027") round pins
- Polarized
- Friction lock

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5264-N and 42219
Designed In: Millimeters

Electrical

Voltage: 250V
Current:

AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Brass

Plating: Tin

Operating Temperature: 0 to +75°C



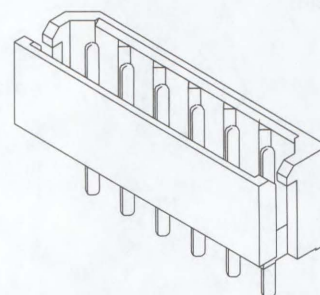
2.50mm (.098") Pitch

SPOX™

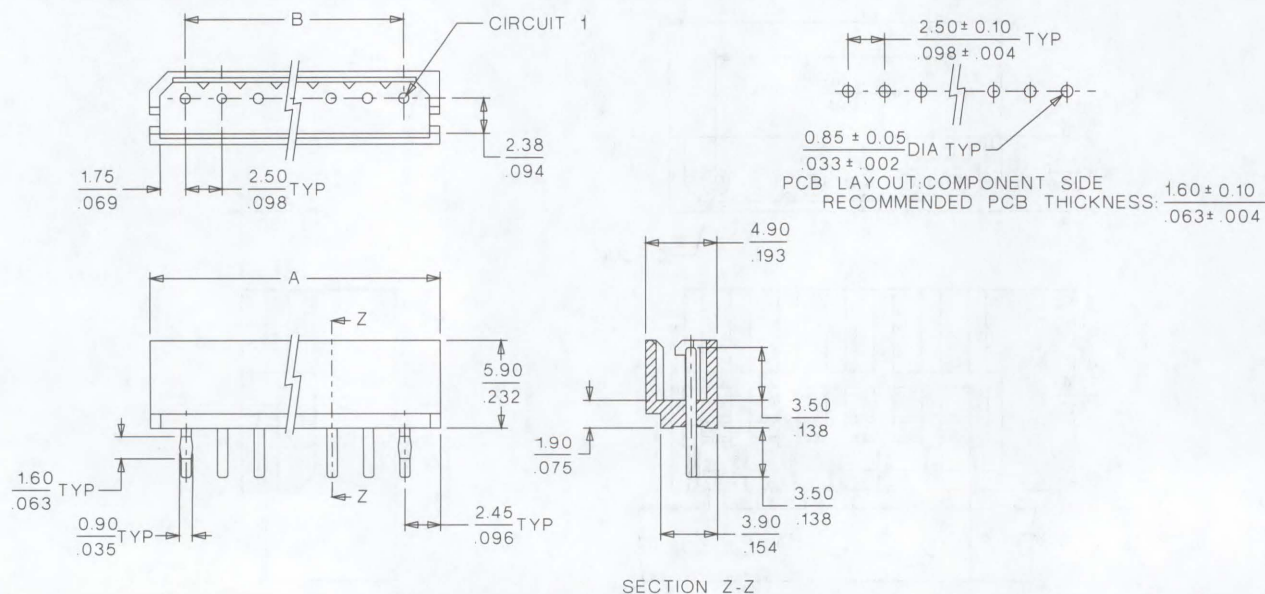
Wire-to-Board
Header

5267-NA

Vertical
Fully Shrouded



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	22-03-5025	7.40 (.291)	2.50 (.098)
3	22-03-5035	9.90 (.390)	5.00 (.197)
4	22-03-5045	12.40 (.488)	7.50 (.295)
5	22-03-5055	14.90 (.587)	10.00 (.394)
6	22-03-5065	17.40 (.685)	12.50 (.492)
7	22-03-5075	19.90 (.783)	15.00 (.591)
8	22-03-5085	22.40 (.882)	17.50 (.689)
9	22-03-5095	24.90 (.980)	20.00 (.787)
10	22-03-5105	27.40 (1.079)	22.50 (.886)
11	22-03-5115	29.90 (1.117)	25.00 (.984)
12	22-03-5125	32.40 (1.276)	27.50 (1.083)
13	22-03-5135	34.90 (1.374)	30.00 (1.181)
14	22-03-5145	37.40 (1.472)	32.50 (1.280)
15	22-03-5155	39.90 (1.571)	35.00 (1.378)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- 0.70mm (.027") round pins
- Polarized
- Friction lock

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5264-N and 42219
Designed In: Millimeters

Electrical

Voltage: 250V

Current:

AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Brass

Plating: Tin

Operating Temperature: -40 to +105°C



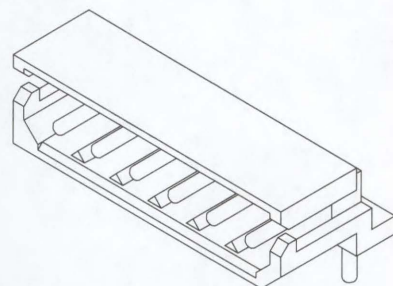
2.50mm (.098") Pitch

SPOX™

**Wire-to-Board
Header**

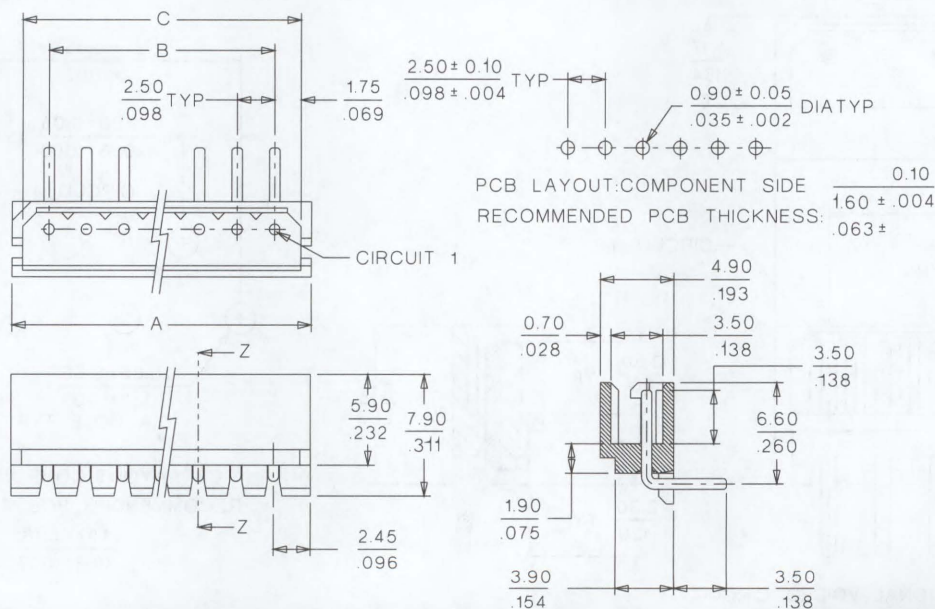
5268-NA

**Right Angle
Fully Shrouded**



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	22-05-7025	7.40 (.291)	2.50 (.098)	6.00 (.236)
3	22-05-7035	9.90 (.390)	5.00 (.197)	8.50 (.335)
4	22-05-7045	12.40 (.488)	7.50 (.295)	11.00 (.433)
5	22-05-7055	14.90 (.587)	10.00 (.394)	13.50 (.531)
6	22-05-7065	17.40 (.685)	12.50 (.492)	16.00 (.630)
7	22-05-7075	19.90 (.783)	15.00 (.591)	18.50 (.728)
8	22-05-7085	22.40 (.882)	17.50 (.689)	21.00 (.827)
9	22-05-7095	24.90 (.980)	20.00 (.787)	23.50 (.925)
10	22-05-7105	27.40 (1.079)	22.50 (.886)	26.00 (1.024)
11	22-05-7115	29.90 (1.117)	25.00 (.984)	28.50 (1.122)
12	22-05-7125	32.40 (1.276)	27.50 (1.083)	31.00 (1.220)
13	22-05-7135	34.90 (1.374)	30.00 (1.181)	33.50 (1.319)
14	22-05-7145	37.40 (1.472)	32.50 (1.280)	36.00 (1.417)
15	22-05-7155	39.90 (1.571)	35.00 (1.378)	38.50 (1.516)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Polarized to mating connector
- Staggered footprint prevents solder bridging
- Standard kinked PC tails for retention to PC board

Reference Information

Product Specification: PS-42219
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 42219 connectors
 Designed In: Millimeters

Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1000V AC
 Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 1.8kg max.
 Unmating Force: 0.15kg min.
 Durability: 25 cycles

Physical

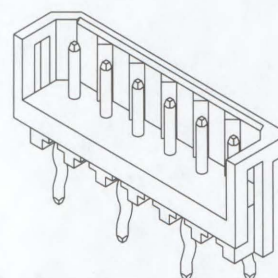
Housing: White Polyester, UL 94V-0
 Contact: Brass .027" diameter
 Plating: Tin
 Operating Temperature: 0 to +75°C



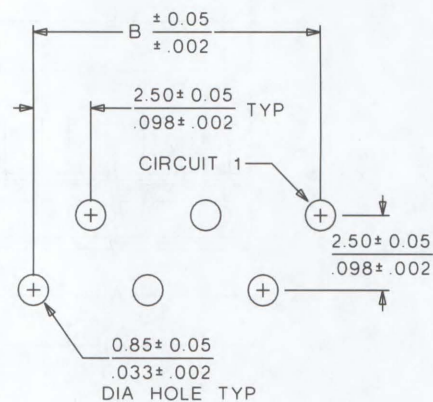
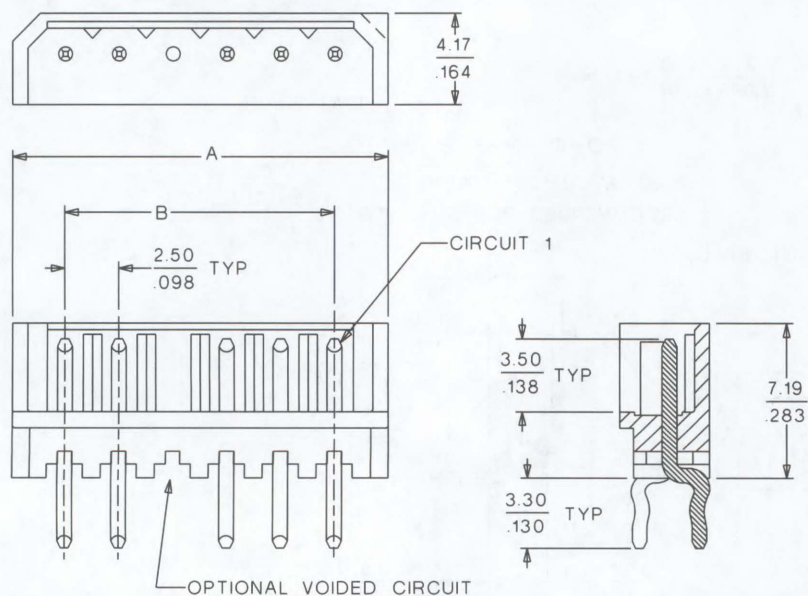
2.50mm (.098") Pitch SPOX™ Wire-to-Board Header

42249

Shrouded Staggered Footprint



CATALOG DRAWING FOR REFERENCE ONLY



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 22-43-6020	7.40 (.291)	2.50 (.098)
3	• 22-43-6030	9.90 (.390)	5.00 (.197)
4	• 22-43-6040	12.40 (.488)	7.50 (.295)
5	• 22-43-6050	14.90 (.587)	10.00 (.394)
6	• 22-43-6060	17.40 (.685)	12.50 (.492)
7	• 22-43-6070	19.90 (.783)	15.00 (.591)
8	• 22-43-6080	22.40 (.882)	17.50 (.689)
9	• 22-43-6090	24.90 (.980)	20.00 (.787)
10	• 22-43-6100	27.40 (1.079)	22.50 (.886)
11	• 22-43-6110	29.90 (1.177)	25.00 (.984)
12	• 22-43-6120	32.40 (1.276)	27.50 (1.083)
13	• 22-43-6130	34.90 (1.374)	30.00 (1.181)
14	• 22-43-6140	37.40 (1.472)	32.50 (1.280)
15	• 22-43-6150	39.90 (1.571)	35.00 (1.378)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Polarized to mating connector
- Standard kinked PC tails for retention to PC board

Reference Information

Product Specification: PS-42219

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 42219 connectors

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC

Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 1.8kg max.

Unmating Force: 0.15kg min.

Durability: 25 cycles

Physical

Housing: White Polyester, UL 94V-0

Contact: Brass .027" diameter

Plating: Tin

Operating Temperature: 0 to +75°C



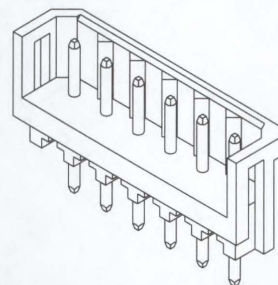
2.50mm (.098") Pitch

SPOX™

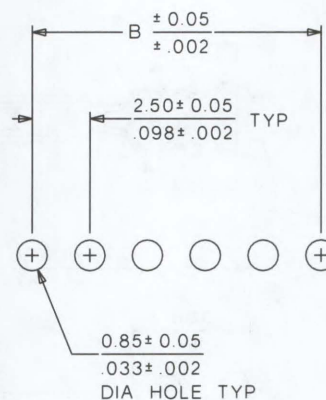
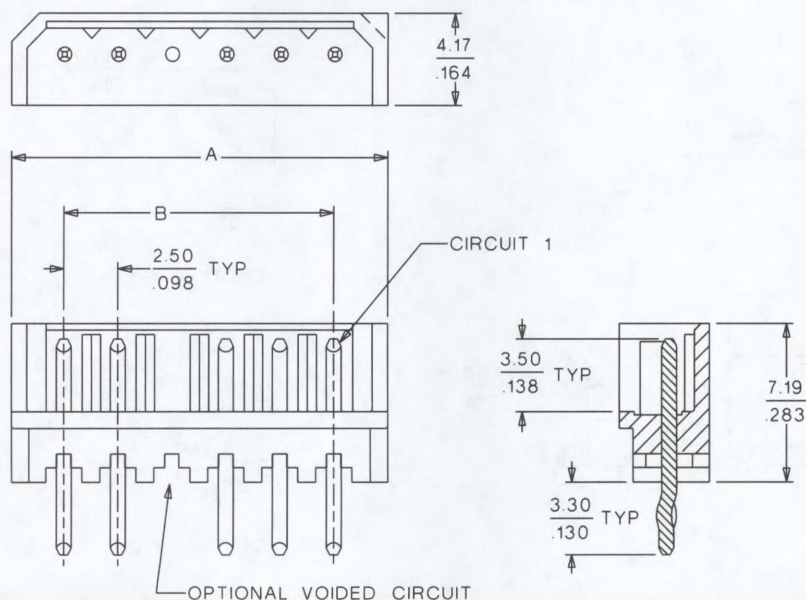
Wire-to-Board
Header

42267

Shrouded
In-Line Footprint



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 22-43-8020	7.40 (.291)	2.50 (.098)
3	• 22-43-8030	9.90 (.390)	5.00 (.197)
4	• 22-43-8040	12.40 (.488)	7.50 (.295)
5	• 22-43-8050	14.90 (.587)	10.00 (.394)
6	• 22-43-8060	17.40 (.685)	12.50 (.492)
7	• 22-43-8070	19.90 (.783)	15.00 (.591)
8	• 22-43-8080	22.40 (.882)	17.50 (.689)
9	• 22-43-8090	24.90 (.980)	20.00 (.787)
10	• 22-43-8100	27.40 (1.079)	22.50 (.886)
11	• 22-43-8110	29.90 (1.177)	25.00 (.984)
12	• 22-43-8120	32.40 (1.276)	27.50 (1.083)
13	• 22-43-8130	34.90 (1.374)	30.00 (1.181)
14	• 22-43-8140	37.40 (1.472)	32.50 (1.280)
15	• 22-43-8150	39.90 (1.571)	35.00 (1.378)

• US Standard Product, available through Molex franchised distributors

B

2.00 to 2.50mm (.079 to .098") Pitch

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits
 ■ Rigid contact

Reference Information
 Packaging: Reel or bag
 Mates With: 5103 terminals
 Use With: 5240 housing
 Designed In: Millimeters

molex® 2.50mm (.098") Pitch SPOX™ Wire-to-Wire Male Crimp Terminal

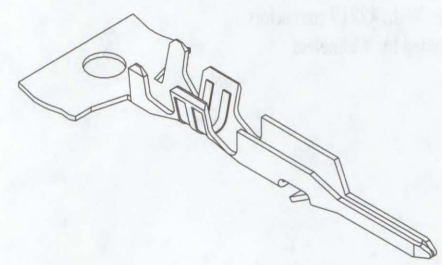
5241

Electrical
 Voltage: 250V
 Current:

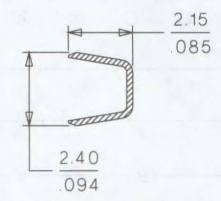
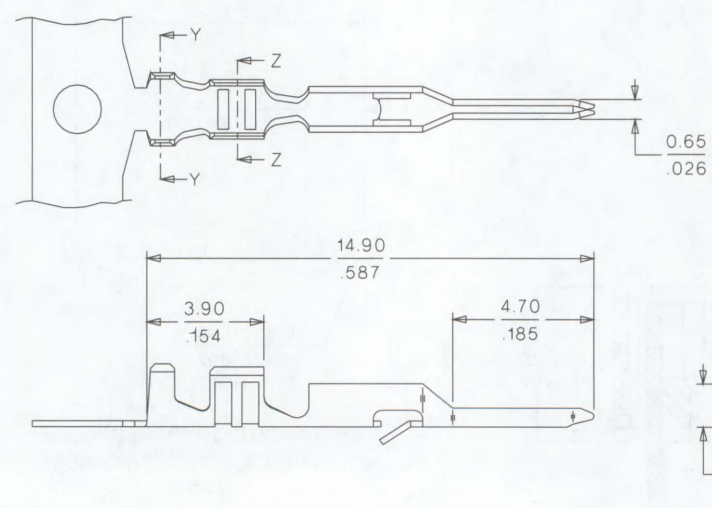
AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1000V AC/1 min.
 Insulation Resistance: 1000 MΩ min.

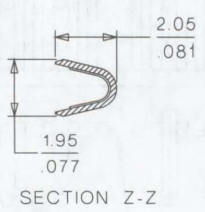
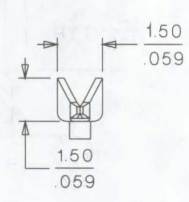
Physical
 Contact: Brass
 Plating: Tin
 Operating Temperature: -40 to +105°C
 Wire Range: 22 to 28 AWG
 Strip Length: 2.6 to 3.2mm



CATALOG DRAWING (FOR REFERENCE ONLY)



SECTION Y-Y



SECTION Z-Z

ORDERING INFORMATION AND DIMENSIONS

Order No.	Terminal	Wire Gauge AWG	Insulation Diameter	Contact Material
08-70-0102	Reel	22-28	1.90mm max.	Tin-Plated Brass
08-70-0103	Bag			

Recommended wire range assumes stranded wire

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 12 circuits
- With and without mounting ears

Reference Information

Packaging: Bag
 UL File No.: E29179
 CSA File No.: LRT19980
 Mates With: 5102-N housing
 Use With: 5241 terminals
 Designed In: Millimeters

Electrical

Voltage: 250V
 Current:

AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

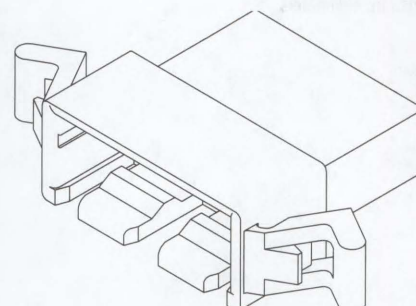
Housing: 6/6 nylon, UL 94V-0

Operating Temperature: -40 to +105°C



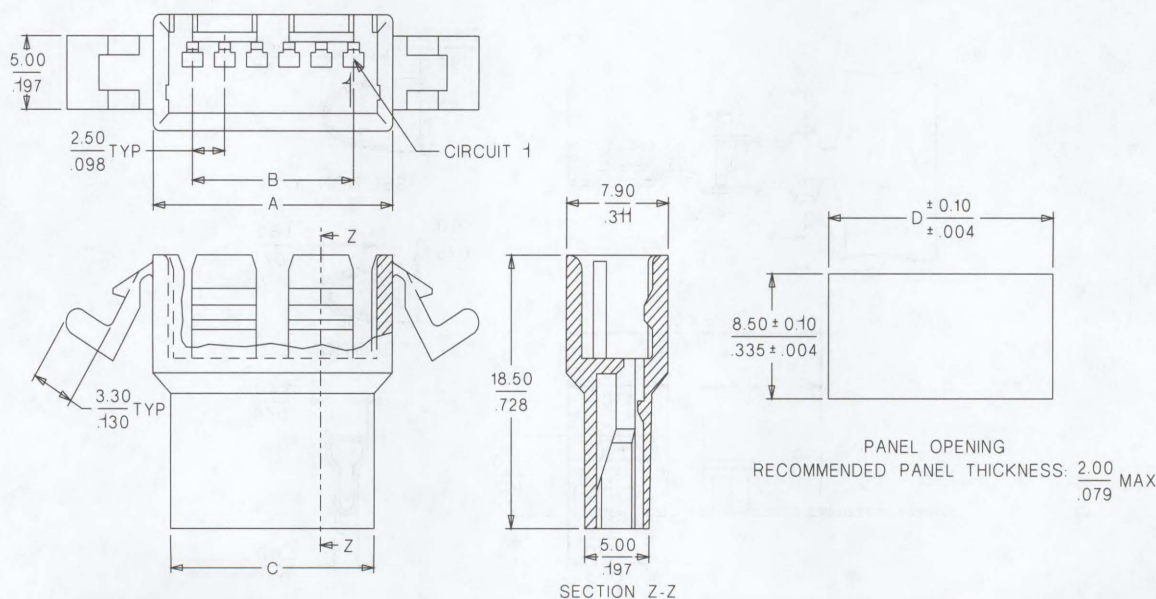
2.50mm (.098") Pitch SPOX™ Wire-to-Wire Plug Housing

5240



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension			
	With Ears	Without Ears	A	B	C	D
2	29-11-0022	29-11-0023	8.60 (.338)	2.50 (.098)	5.80 (.228)	12.40 (.488)
3	29-11-0032	29-11-0033	11.10 (.437)	5.00 (.197)	8.30 (.327)	14.90 (.587)
4	29-11-0042	29-11-0043	13.60 (.535)	7.50 (.295)	10.80 (.425)	17.40 (.685)
5	29-11-0052	29-11-0053	16.10 (.633)	10.00 (.393)	13.30 (.524)	19.90 (.783)
6	29-11-0062	29-11-0063	18.60 (.732)	12.50 (.492)	15.80 (.622)	22.40 (.882)
7	29-11-0072	29-11-0073	21.10 (.830)	15.00 (.591)	18.30 (.720)	24.90 (.980)
8	29-11-0082	29-11-0083	23.60 (.929)	17.50 (.689)	20.80 (.819)	27.40 (1.079)
9	29-11-0092	29-11-0093	26.10 (1.027)	20.00 (.787)	23.30 (.917)	29.90 (1.177)
10	29-11-0102	29-11-0103	28.60 (1.125)	22.50 (.886)	25.80 (1.016)	32.40 (1.276)
11	29-11-0112	29-11-0113	31.10 (1.224)	25.00 (.984)	28.30 (1.114)	34.90 (1.374)
12	29-11-0122	29-11-0123	33.60 (1.323)	27.50 (1.083)	30.80 (1.213)	37.40 (1.472)

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Anti-fishhooking contact design
- 4 points of contact
- Low profile

Reference Information

Packaging: Reel or bag
Use With: 5102, 5207 and 5209 housings
Designed In: Millimeters

Electrical

Voltage: 250V

Current:

AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: See Table

Plating: See Table

Operating Temperature: -40 to +105°C

Wire Range: 22 to 28 AWG

Strip Length: 2.6 to 3.2mm



2.50mm (.098") Pitch

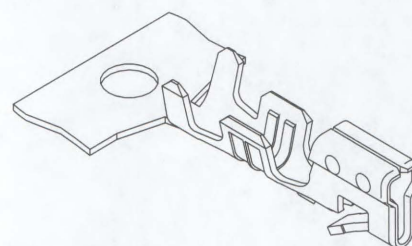
SPOX™

Wire-to-Board

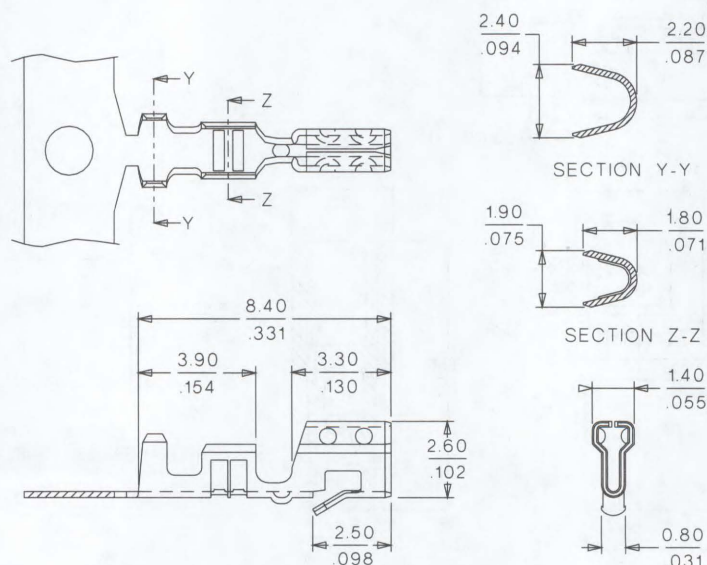
Crimp Terminal

5103

Spring Box



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Order No.	Terminal	Wire Gauge AWG	Insulation Diameter	Contact Material
08-70-0056	Reel	22-28	1.90 max.	Tin-Plated Brass
08-70-0057	Bag			
08-70-0058	Reel			Tin-Plated Phosphor Bronze
08-70-0059	Bag			

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Low profile
- Molded pull tab
- Friction lock

Reference Information

Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 5045-NA and 5046-NA
 Use With: 5103 terminals
 Designed In: Millimeters

Electrical

Voltage: 250V

Current:

AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

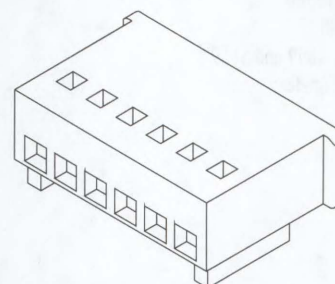
Housing: 6/6 nylon, UL 94V-0

Operating Temperature: -40 to +105°C

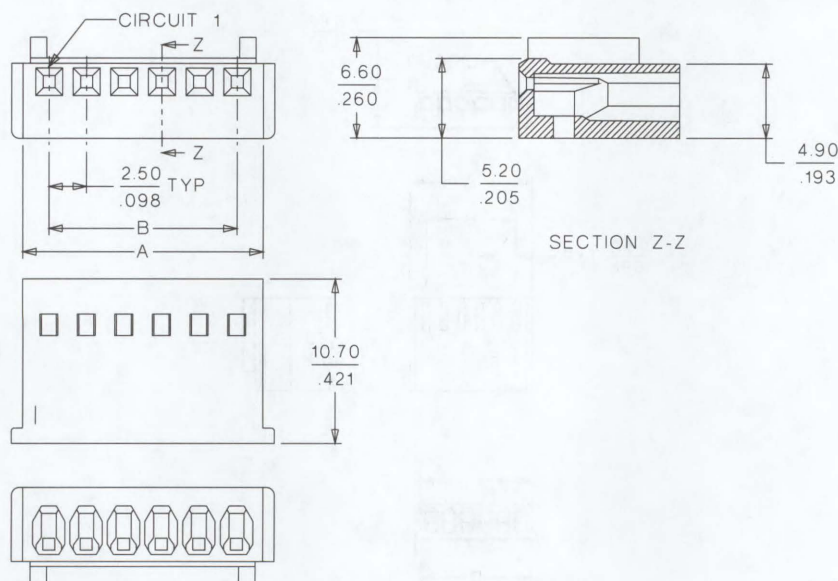


2.50mm (.098") Pitch SPOX™ Wire-to-Board Crimp Terminal Housing

5102-N



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	22-01-1024	6.00 (.236)	2.50 (.098)
3	22-01-1034	8.50 (.335)	5.00 (.197)
4	22-01-1044	11.00 (.433)	7.50 (.295)
5	22-01-1054	13.50 (.531)	10.00 (.394)
6	22-01-1064	16.00 (.630)	12.50 (.492)
7	22-01-1074	18.50 (.728)	15.00 (.591)
8	22-01-1084	21.00 (.827)	17.50 (.689)
9	22-01-1094	23.50 (.925)	20.00 (.787)
10	22-01-1104	26.00 (1.024)	22.50 (.886)
11	22-01-1114	28.50 (1.122)	25.00 (.984)
12	22-01-1124	31.00 (1.220)	27.50 (1.083)
13	22-01-1134	33.50 (1.319)	30.00 (1.181)
14	22-01-1144	36.00 (1.417)	32.50 (1.280)
15	22-01-1154	38.50 (1.516)	35.00 (1.378)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- Friction lock ramp provides secure mating retention
- Side walls facilitate mating and unmating

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5508
Use With: 2759, 4809 and 5159
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

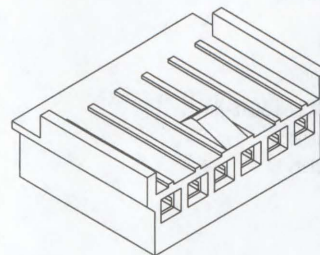
Physical

Housing: 6/6 nylon, UL 94V-0
Operating Temperature: -40 to +105°C

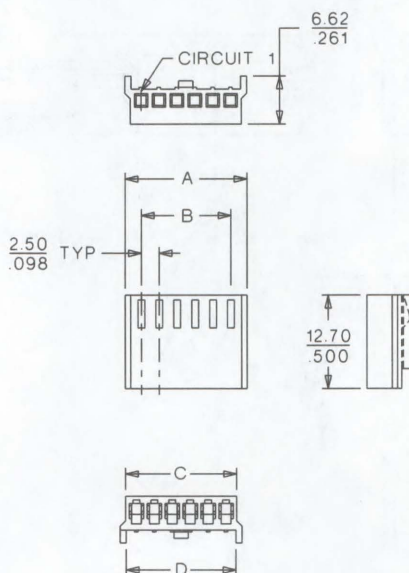


2.50mm (.098") Pitch KK® Crimp Terminal Housing

5507



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension			
		A	B	C	D
2	39-01-0025	7.00 (.276)	2.50 (.098)	5.50 (.217)	5.30 (.209)
3	39-01-0035	9.50 (.374)	5.00 (.197)	8.00 (.315)	7.80 (.307)
4	39-01-0045	12.00 (.472)	7.50 (.295)	10.50 (.413)	10.30 (.406)
5	39-01-0055	14.50 (.571)	10.00 (.394)	13.00 (.512)	12.80 (.504)
6	39-01-0065	17.00 (.669)	12.50 (.492)	15.50 (.610)	15.30 (.602)
7	39-01-0075	19.50 (.768)	15.00 (.591)	18.00 (.709)	17.80 (.701)
8	39-01-0085	22.00 (.866)	17.50 (.689)	20.50 (.807)	20.30 (.799)
9	39-01-0095	24.50 (.965)	20.00 (.787)	23.00 (.906)	22.80 (.898)
10	39-01-0105	27.00 (1.063)	22.50 (.886)	25.50 (1.004)	25.30 (.996)
11	39-01-0115	29.50 (1.161)	25.00 (.984)	28.00 (1.102)	27.80 (1.094)

Circuits	Order No.	Dimension			
		A	B	C	D
12	39-01-0125	32.00 (1.260)	27.50 (1.083)	30.50 (1.201)	30.30 (1.193)
13	39-01-0135	34.50 (1.358)	30.00 (1.181)	33.00 (1.299)	32.80 (1.291)
14	39-01-0145	37.00 (1.457)	32.50 (1.280)	35.50 (1.398)	35.30 (1.390)
15	39-01-0155	39.50 (1.555)	35.00 (1.378)	38.00 (1.496)	37.80 (1.488)
16	39-01-0165	42.00 (1.654)	37.50 (1.476)	40.50 (1.594)	40.30 (1.587)
17	39-01-0175	44.50 (1.752)	40.00 (1.575)	43.00 (1.693)	42.80 (1.685)
18	39-01-0185	47.00 (1.850)	42.50 (1.673)	45.50 (1.791)	45.30 (1.783)
19	39-01-0195	49.50 (1.949)	45.00 (1.772)	48.00 (1.890)	47.80 (1.882)
20	39-01-0205	52.00 (2.047)	47.50 (1.870)	50.50 (1.988)	50.30 (1.980)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- Friction locking window provides secure mating retention

Reference Information

Packaging: Bag
Mates With: 5507
Designed In: Millimeters

Electrical

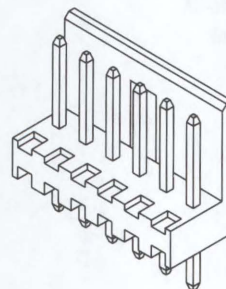
Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0
Contact: Brass, Tin over Copper plating
Operating Temperature: -40 to +105°C

molex® 2.50mm (.098") Pitch
KK®
Header

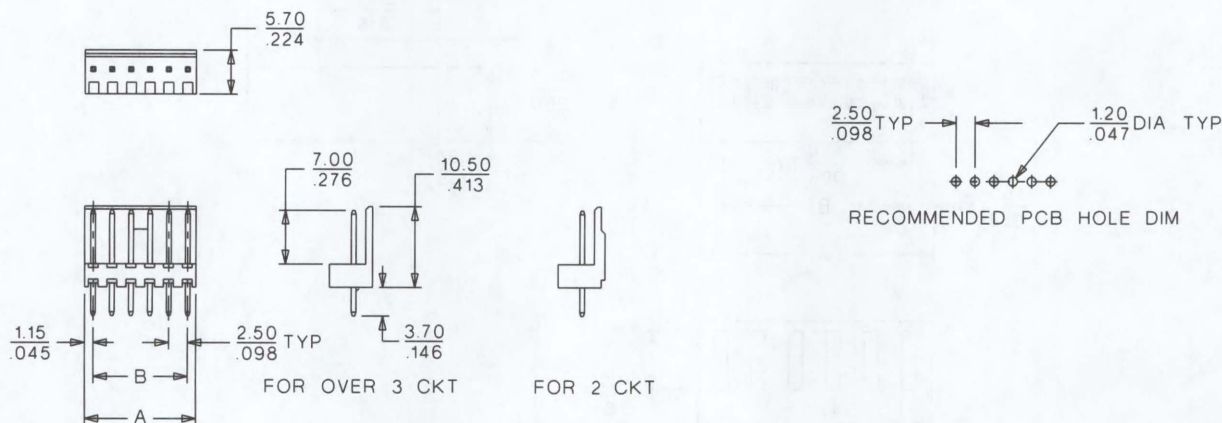
5508
Vertical
Friction Lock



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	39-27-0026	4.80 (.189)	2.50 (.098)
3	39-27-0036	7.30 (.287)	5.00 (.197)
4	39-27-0046	9.80 (.386)	7.50 (.295)
5	39-27-0056	12.30 (.484)	10.00 (.394)
6	39-27-0066	14.80 (.583)	12.50 (.492)
7	39-27-0076	17.30 (.681)	15.00 (.591)
8	39-27-0086	19.80 (.780)	17.50 (.689)
9	39-27-0096	22.30 (.878)	20.00 (.787)
10	39-27-0106	24.80 (.976)	22.50 (.886)
11	39-27-0116	27.30 (1.075)	25.00 (.984)

B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Molded friction lock
- Optional locking ramp version
- Stackable end-to-end

Reference Information

Packaging: Bulk
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: KK 2.50mm (.098") headers or 0.64mm (.025")
 staked pins, 5045-NA and 5046-NA
 Use With: 2759 and 5159 terminals
 Designed In: Millimeters

Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1000V AC/1 min.
 Insulation Resistance: 1000 MΩ min.

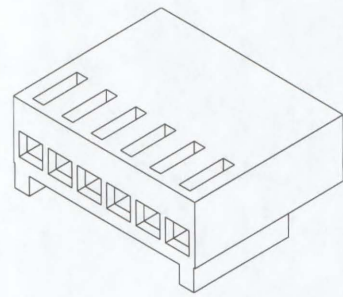
Physical

Housing: 6/6 nylon, UL 94V-0
 Operating Temperature: -40 to +105°C

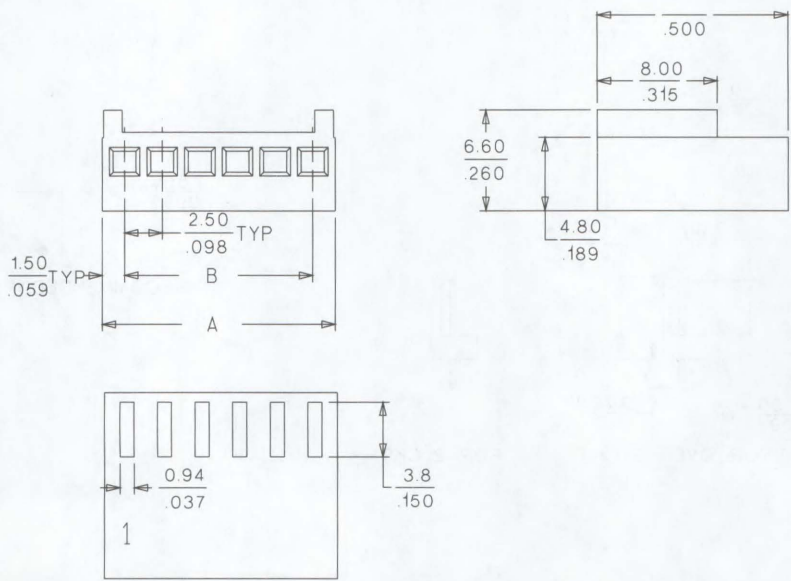


2.50mm (.098") Pitch KK® Crimp Terminal Housing

5051-N
Polarized



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	22-01-1022	5.50 (.216)	2.50 (.098)
3	22-01-1032	8.00 (.315)	5.00 (.197)
4	22-01-1042	10.50 (.413)	7.50 (.295)
5	22-01-1052	13.00 (.512)	10.00 (.394)
6	22-01-1062	15.50 (.611)	12.50 (.492)
7	22-01-1072	18.00 (.709)	15.00 (.591)
8	22-01-1082	20.50 (.807)	17.50 (.689)
9	22-01-1092	23.00 (.906)	20.00 (.787)
10	22-01-1102	25.50 (1.004)	22.50 (.886)
11	22-01-1112	28.00 (1.102)	25.00 (.984)
12	22-01-1122	30.50 (1.201)	27.50 (1.083)
13	22-01-1132	33.00 (1.299)	30.00 (1.181)
14	22-01-1142	35.50 (1.398)	32.50 (1.280)
15	22-01-1152	38.00 (1.496)	35.00 (1.378)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Box design protects contact area
- Four points of contact for good signal integrity

Reference Information

Product Specification: Wire-to-Board—PS-51191-002

Wire-to-Wire—PS-51191-003

Packaging: Reel or bag

Mates With: 5241

Use With: 51191

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: Brass

Plating: Tin

Wire Range: 22 to 28 AWG

Insulation Diameter: 1.15 to 1.90mm (.045 to .075") dia.

Strip Length: 2.60 to 3.20mm (.102 to .126")

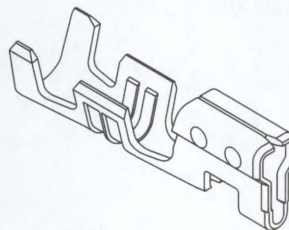
Operating Temperature: -40 to +105°C



2.50mm (.098") Pitch Wire-to-Board and Wire-to-Wire Crimp Terminal

50802

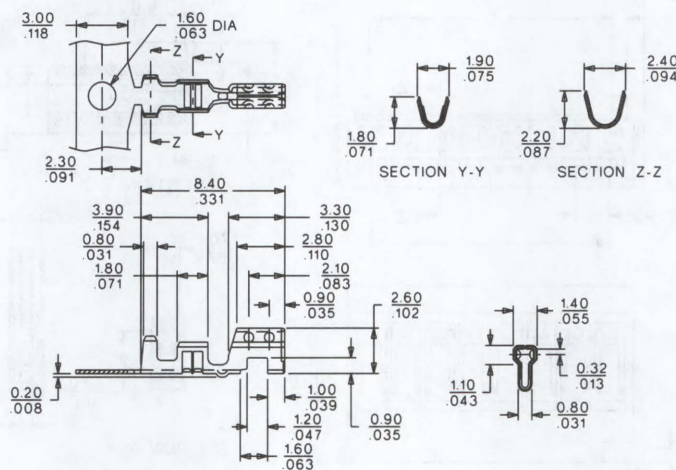
Female



B

2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Packaging
50802-9001	Reel
50802-9101	Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 12 circuits
- Guide rails facilitate mating
- Friction lock for mating retention
- Molded pull-tabs enable easy un-mating

Reference Information

Product Specification: Wire-to-Board—PS-51191-002

Wire-to-Wire—PS-51191-003

Packaging: Bag

UL File No.: E29179

Mates With: 5045, 5046 and 5240

Use With: 50802

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

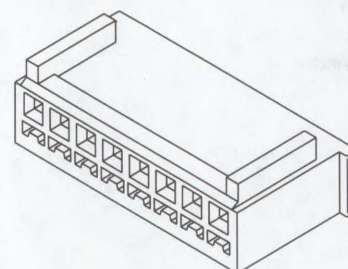
Housing: 6/6 nylon, UL 94V-0

Operating Temperature: -40 to +105°C

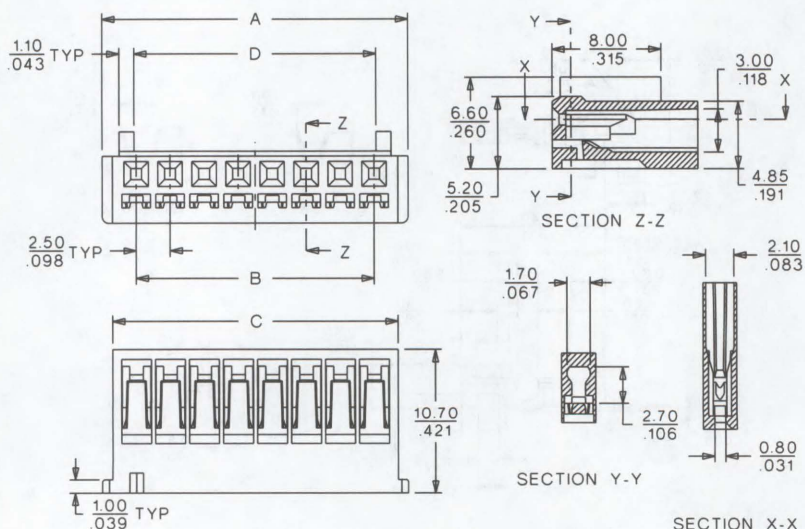


2.50mm (.098") Pitch Wire-to-Board and Wire-to-Wire Receptacle

51191



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension			
		A	B	C	D
2	51191-0200	7.50 (.295)	2.50 (.098)	6.00 (.236)	2.80 (.110)
3	51191-0300	10.00 (.394)	5.00 (.197)	8.50 (.335)	5.30 (.209)
4	51191-0400	12.50 (.492)	7.50 (.295)	11.00 (.433)	7.80 (.307)
5	51191-0500	15.00 (.591)	10.00 (.394)	13.50 (.531)	10.30 (.406)
6	51191-0600	17.50 (.689)	12.50 (.492)	16.00 (.630)	12.80 (.504)
7	51191-0700	20.00 (.787)	15.00 (.591)	18.50 (.728)	15.30 (.602)
8	51191-0800	22.50 (.886)	17.50 (.689)	21.00 (.827)	17.80 (.701)
9	51191-0900	25.00 (.984)	20.00 (.787)	23.50 (.925)	20.30 (.799)
10	51191-1000	27.50 (1.083)	22.50 (.886)	26.00 (1.024)	22.80 (.898)
11	51191-1100	30.00 (1.181)	25.00 (.984)	28.50 (1.122)	25.30 (.996)
12	51191-1200	32.50 (1.280)	27.50 (1.083)	31.00 (1.220)	27.80 (1.094)
13	51191-1300	35.00 (1.378)	30.00 (1.181)	33.50 (1.319)	30.03 (1.182)
14	51191-1400	37.50 (1.477)	32.50 (1.280)	36.00 (1.420)	32.80 (1.291)
15	51191-1500	40.00 (1.575)	35.00 (1.378)	38.50 (1.516)	35.30 (1.390)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- 0.64mm (.025") square wire pins

Reference Information

Packaging: Bulk
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 5051 housings, KK® 2.50mm (.098")
 and 5102-N
 Designed In: Millimeters

Electrical

Voltage: 250V
 Current:

AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1000V AC/1 min.
 Insulation Resistance: 1000 MΩ min.

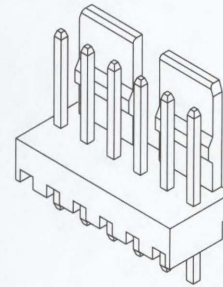
Physical

Housing: 6/6 nylon, UL 94V-0
 Contact: Brass
 Plating: See Table
 Operating Temperature: -40 to +105°C



**2.50mm (.098") Pitch
 Header**

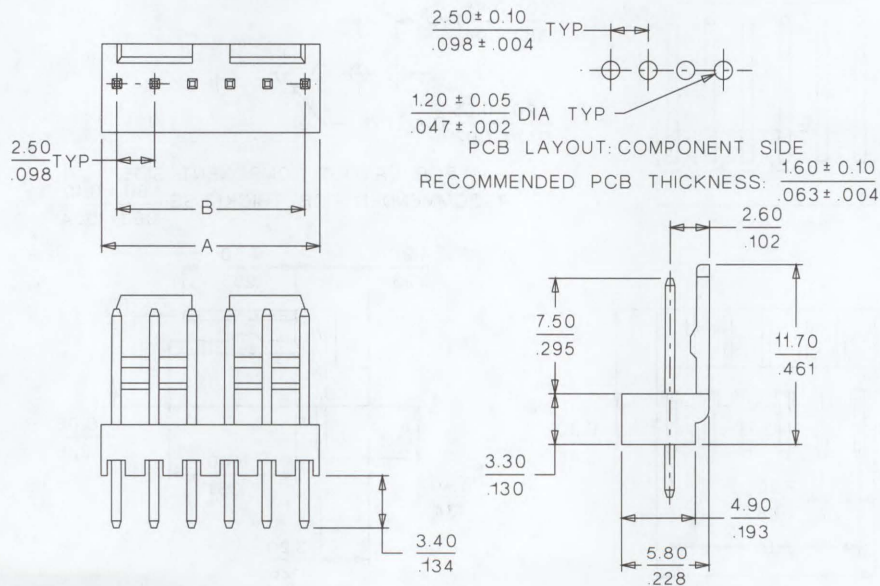
**5045
 Vertical
 Polarizing Lock**



B

2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
2	• 22-04-1021	22-11-1021	4.50 (.098)	2.50 (.177)
3	• 22-04-1031	22-11-1031	7.00 (.276)	5.00 (.197)
4	• 22-04-1041	22-11-1041	9.50 (.374)	7.50 (.295)
5	• 22-04-1051	22-11-1051	12.00 (.472)	10.00 (.394)
6	• 22-04-1061	22-11-1061	14.50 (.571)	12.50 (.492)
7	• 22-04-1071	22-11-1071	17.00 (.669)	15.00 (.591)
8	• 22-04-1081	22-11-1081	19.50 (.768)	17.50 (.689)
9	• 22-04-1091	22-11-1091	22.00 (.866)	20.00 (.787)
10	• 22-04-1101	22-11-1101	24.50 (.964)	22.50 (.886)
11	• 22-04-1111	22-11-1111	27.00 (1.063)	25.00 (.984)
12	• 22-04-1121	22-11-1121	29.50 (1.161)	27.50 (1.083)
13	• 22-04-1131	22-11-1131	32.00 (1.260)	30.00 (1.181)
14	• 22-04-1141	22-11-1141	34.50 (1.358)	32.50 (1.279)
15	• 22-04-1151	22-11-1151	37.00 (1.457)	35.00 (1.378)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- 0.64mm (.025") square wire pins

Reference Information

Packaging: Bulk
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 5051 housings, KK® 2.50mm (.098")
 and 5102-N
 Designed In: Millimeters

Electrical

Voltage: 250V

Current:

AWG	22	24	26	28
Amperes	3.0	2.5	2.0	1.5

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Brass

Plating: See Table

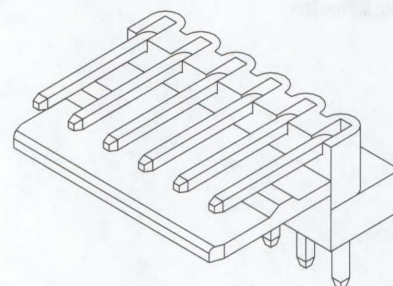
Operating Temperature: -40 to +105°C



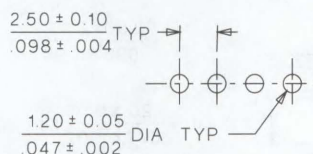
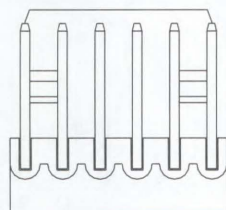
2.50mm (.098") Pitch Header

5046

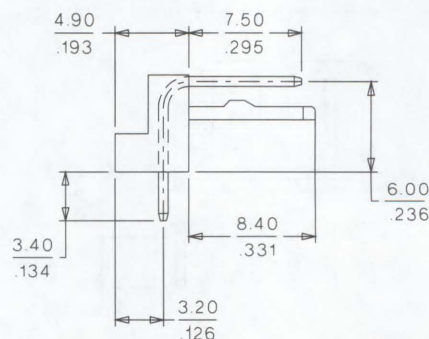
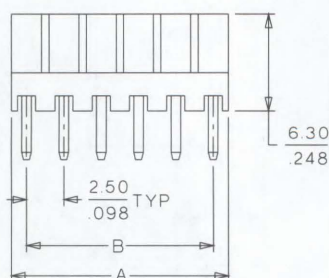
Right Angle Friction Lock



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
 RECOMMENDED PCB THICKNESS: $\frac{1.60 \pm 0.10}{.063 \pm .004}$



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
2	• 22-05-1022	22-12-1022	4.50 (.177)	2.50 (.098)
3	• 22-05-1032	22-12-1032	7.00 (.276)	5.00 (.197)
4	• 22-05-1042	22-12-1042	9.50 (.374)	7.50 (.295)
5	• 22-05-1052	22-12-1052	12.00 (.472)	10.00 (.394)
6	• 22-05-1062	22-12-1062	14.50 (.571)	12.50 (.492)
7	• 22-05-1072	22-12-1072	17.00 (.669)	15.00 (.591)
8	• 22-05-1082	22-12-1082	19.50 (.768)	17.50 (.689)
9	• 22-05-1092	22-12-1092	22.00 (.866)	20.00 (.787)
10	• 22-05-1102	22-12-1102	24.50 (.964)	22.50 (.886)
11	• 22-05-1112	22-12-1112	27.00 (1.063)	25.00 (.984)
12	• 22-05-1122	22-12-1122	29.50 (1.161)	27.50 (1.083)
13	• 22-05-1132	22-12-1132	32.00 (1.260)	30.00 (1.181)
14	• 22-05-1142	22-12-1142	34.50 (1.358)	32.50 (1.279)
15	• 22-05-1152	22-12-1152	37.00 (1.457)	35.00 (1.378)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- 4-point IDT contact
- 2-point interface pin contact

Reference Information

Product Specification: PS-8160

Packaging: Bulk

Mates With: 3022, 3094 and 93610

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 8mΩ max.

Dielectric Withstanding Voltage: 3000V AC

Insulation Resistance: 200K MΩ min.

Mechanical

Contact Retention to Housing 28N min.

Wire Pull-Out Force: Vertical—28.9N min.

Horizontal—8.9N min.

Mating Force: 2.5N max.

Unmating Force: 1.8N min.

Durability: 10 cycles

Physical

Housing: Polyester, UL 94V-0

Contact: Phosphor Bronze

Plating: Hot Tin/Lead—dip 1.0-2.50μm

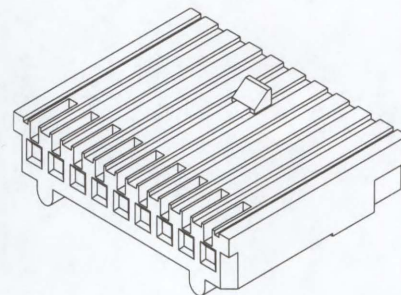
Wire Accommodation: 24 AWG solid discrete wire and cable

Insulation Diameter: 1.00 (.039) to 1.52mm (.060") max.

molex® 2.50mm (.098") Pitch Connector

8160-NG

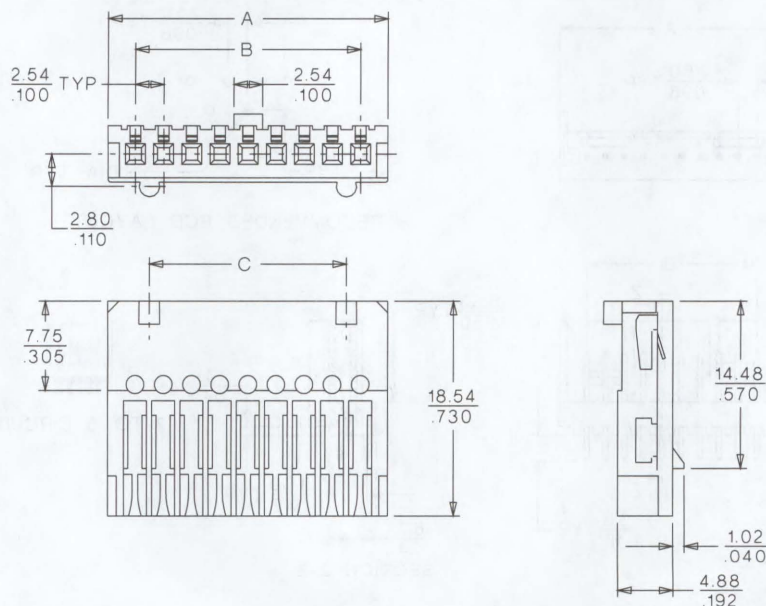
Euro 250 Series In-Line Wire Exit



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	38-00-7272	7.50 (.295)	2.50 (.098)	
3	38-00-7384	10.00 (.394)	5.00 (.197)	2.50 (.098)
4	38-00-7385	12.50 (.492)	7.50 (.295)	5.00 (.197)
5	38-00-7386	15.00 (.591)	10.00 (.394)	7.50 (.295)
6	38-00-7387	17.50 (.689)	12.50 (.492)	10.00 (.394)
7	38-00-7388	20.00 (.787)	15.00 (.591)	12.50 (.492)
8	38-00-7389	22.50 (.886)	17.50 (.689)	15.00 (.591)
9	38-00-7390	25.00 (.984)	20.00 (.787)	17.50 (.689)
10	38-00-7391	27.50 (1.083)	22.50 (.886)	20.00 (.787)
11	38-00-7392	30.00 (1.180)	25.00 (.984)	22.50 (.886)

Circuits	Order No.	Dimension		
		A	B	C
12	38-00-7393	32.50 (1.280)	27.50 (1.083)	25.00 (.984)
13	38-00-7394	35.00 (1.378)	30.00 (1.180)	27.50 (1.083)
14	38-00-7395	37.50 (1.477)	32.50 (1.280)	30.00 (1.180)
15	38-00-7396	40.00 (1.575)	35.00 (1.378)	32.50 (1.280)
16	38-00-7397	42.50 (1.674)	37.50 (1.477)	35.00 (1.378)
17	38-00-7398	45.00 (1.772)	40.00 (1.575)	37.50 (1.477)
18	38-00-7399	47.50 (1.870)	42.50 (1.674)	40.00 (1.575)
19	38-00-7400	50.00 (1.969)	45.00 (1.772)	42.50 (1.674)
20	38-00-7401	52.50 (2.067)	47.50 (1.870)	45.00 (1.772)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits

Reference Information

Packaging: Bag
Mates With: 5102 and 7534
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 5.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 500K MΩ min.

Mechanical

Contact Retention to Housing: 2 lb min.
Mating Force: 9 oz max.
Unmating Force: 3 oz min.
Durability: 25 cycles

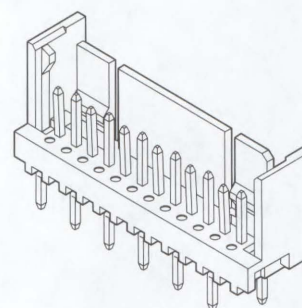
Physical

Housing: White polyester, UL 94V-0
Contact: Brass
Plating: Preplated electro-Tin over Copper
PC Board Thickness: 1.50mm (.060")

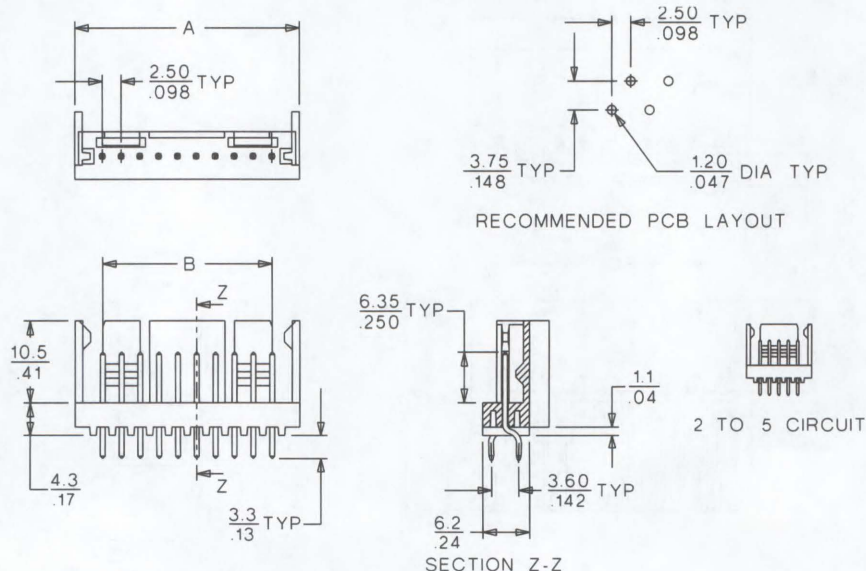
molex® 2.50mm (.098") Pitch
KK®
Header

90293

**Vertical, Shrouded
Staggered Tail**



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	90293-0022	9.80 (.386)	2.50 (.098)
3	90293-0023	12.30 (.484)	5.00 (.187)
4	90293-0024	14.80 (.583)	7.50 (.295)
5	90293-0025	17.30 (.681)	10.00 (.394)
6	90293-0026	19.80 (.780)	12.60 (.492)
7	90293-0027	22.30 (.878)	15.00 (.591)
8	90293-0028	24.80 (.976)	17.50 (.689)
9	90293-0029	27.30 (1.075)	20.00 (.787)
10	90293-0030	29.80 (1.173)	22.50 (.886)
11	90293-0031	32.30 (1.272)	25.00 (.984)

Circuits	Order No.	Dimension	
		A	B
12	90293-0032	34.80 (1.370)	27.50 (1.083)
13	90293-0033	37.30 (1.469)	30.00 (1.181)
14	90293-0034	39.80 (1.567)	32.50 (1.280)
15	90293-0035	42.30 (1.665)	35.00 (1.378)
16	90293-0036	44.80 (1.764)	37.50 (1.476)
17	90293-0037	47.30 (1.862)	40.00 (1.575)
18	90293-0038	49.80 (1.961)	42.50 (1.673)
19	90293-0039	52.30 (2.059)	45.00 (1.772)
20	90293-0040	54.80 (2.157)	47.50 (1.870)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits

Reference Information

Packaging: Bag
Mates With: 5102 and 7534
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 5.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 500K MΩ min.

Mechanical

Contact Retention to Housing: 2 lb min.
Mating Force: 9 oz max.
Unmating Force: 3 oz min.
Durability: 25 cycles

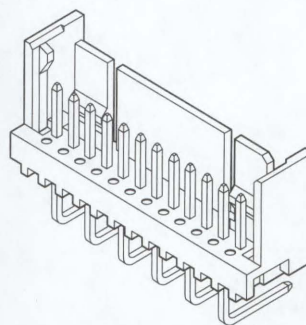
Physical

Housing: White polyester, UL 94V-0
Contact: Brass
Plating: Preplated electro-Tin over Copper
PC Board Thickness: 1.50mm (.060")

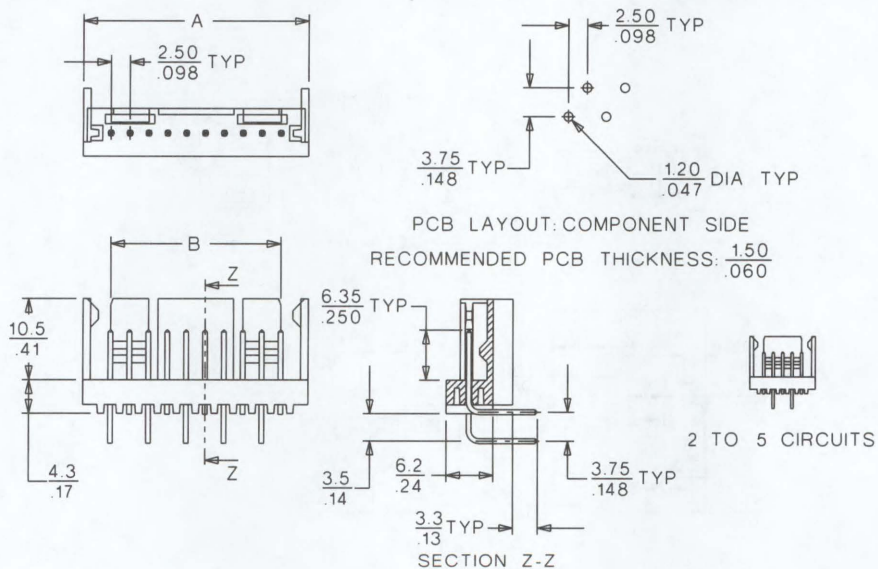
molex® 2.50mm (.098") Pitch
KK®
Header

90298

**Right Angle, Shrouded
Staggered Tail**



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	90298-0002	9.80 (.386)	2.50 (.098)
3	90298-0003	12.30 (.484)	5.00 (.187)
4	90298-0004	14.80 (.583)	7.50 (.295)
5	90298-0005	17.30 (.681)	10.00 (.394)
6	90298-0006	19.80 (.780)	12.60 (.492)
7	90298-0007	22.30 (.878)	15.00 (.591)
8	90298-0008	24.80 (.976)	17.50 (.689)
9	90298-0009	27.30 (1.075)	20.00 (.787)
10	90298-0010	29.80 (1.173)	22.50 (.886)
11	90298-0011	32.30 (1.272)	25.00 (.984)

Circuits	Order No.	Dimension	
		A	B
12	90298-0012	34.80 (1.370)	27.50 (1.083)
13	90298-0013	37.30 (1.469)	30.00 (1.181)
14	90298-0014	39.80 (1.567)	32.50 (1.280)
15	90298-0015	42.30 (1.665)	35.00 (1.378)
16	90298-0016	44.80 (1.764)	37.50 (1.476)
17	90298-0017	47.30 (1.862)	40.00 (1.575)
18	90298-0018	49.80 (1.961)	42.50 (1.673)
19	90298-0019	52.30 (2.059)	45.00 (1.772)
20	90298-0020	54.80 (2.157)	47.50 (1.870)

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Box design provides two points of contact and terminal protection
- Locking tang for secure housing retention

Reference Information

Product Specification: PS-67259-003

Packaging: Reel

Mates With: 67279

Use With: 67259

Designed In: Millimeters

Electrical

Contact Resistance: 20mΩ max.

Mechanical

Contact Retention to Housing: 14.7N (3.3 lb) min.

Wire Pull-out Force: 30 AWG — 4.9N (1.1 lb) min.

28 AWG — 9.8N (2.2 lb) min.

26 AWG — 19.6N (4.4 lb) min.

24 AWG — 29.4N (6.6 lb) min.

22 AWG — 49.0N (11.0 lb) min.

Physical

Insulation Diameter: 0.20mm (.008")

Contact: Brass

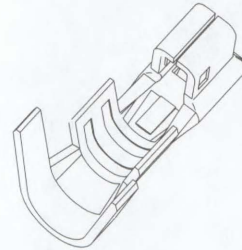
Plating: Tin

Wire Gauge : 22 to 30 AWG

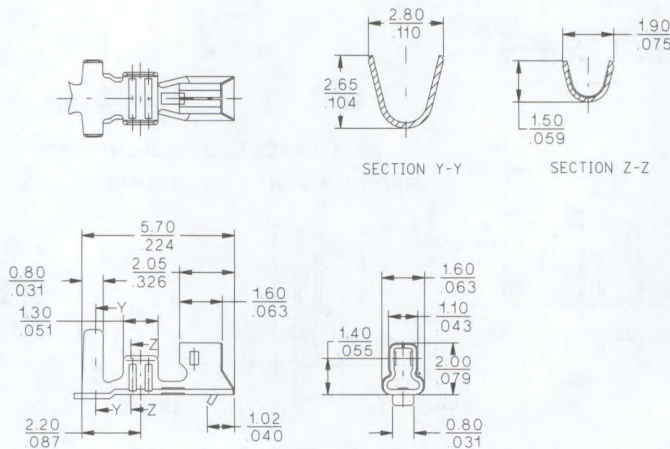
Operating Temperature : -20 to +85°C

molex® 2.50mm (.098") Pitch Wire-to-Board Crimp Terminal

67260



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.
67260-0001

FEATURES AND SPECIFICATIONS

Features and Benefits

- Size 2 to 15 circuits
- Friction lock provides secure mating

Reference Information

Product Specification: PS-67259-003

Packaging: Bag

Mates With: 67279

Use With: 67260

Designed In: Millimeters

Electrical

Dielectric Withstanding Voltage: 800V AC/1 min
Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 83.3N (18.7 lb) max.
Unmating Force: 0.98N (0.22 lb) min.
Contact Retention to Housing: 14.7N (3.3 lb) min.

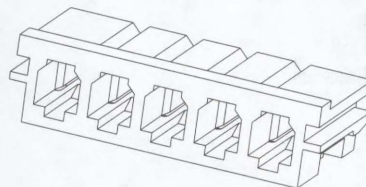
Physical

Housing: White Nylon 66, UL 94V-0
Operating Temperature: -20 to +85°C



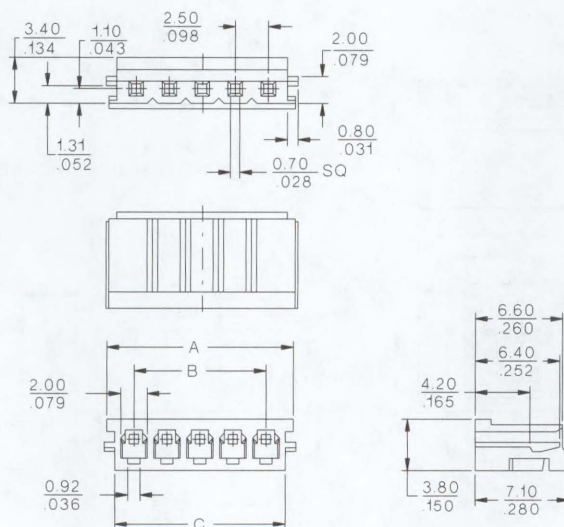
2.50mm (.098") Pitch Wire-to-Board Housing

67259



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	67259-0200	6.60 (.260)	2.50 (.098)	5.40 (.213)
3	67259-0300	9.10 (.358)	5.00 (.196)	7.90 (.311)
4	67259-0400	11.60 (.457)	7.50 (.295)	10.40 (.409)
5	67259-0500	14.10 (.555)	10.00 (.393)	12.90 (.508)
6	67259-0600	16.60 (.654)	12.50 (.492)	15.40 (.606)
7	67259-0700	19.10 (.752)	15.00 (.590)	17.90 (.705)
8	67259-0800	21.60 (.850)	17.50 (.689)	20.40 (.803)
9	67259-0900	24.10 (.949)	20.00 (.787)	22.90 (.902)
10	67259-1000	26.60 (1.047)	22.50 (.886)	25.40 (1.000)
11	67259-1100	29.10 (1.146)	25.00 (.984)	27.90 (1.098)
12	67259-1200	31.60 (1.244)	27.50 (1.083)	30.40 (1.197)
13	67259-1300	34.10 (1.343)	30.00 (1.181)	32.90 (1.295)
14	67259-1400	36.60 (1.441)	32.50 (1.280)	35.40 (1.394)
15	67259-1500	39.10 (1.539)	35.00 (1.378)	37.90 (1.492)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Size 2 to 15 circuits
- Standoffs facilitate post solder cleaning
- Locking windows provide secure mating

Reference Information

Product Specification: PS-67259-003

Packaging: Bag

Mates With: 67259

Designed In: Millimeters

Electrical

Voltage: 250V

Current Rating: 1.0A min.

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 800V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 83.3N (18.7 lb) max.

Unmating Force: 0.98N (0.22 lb) min.

Durability: 50 cycles

Physical

Housing: Thermoplastic, UL 94V-0

Contact: Brass

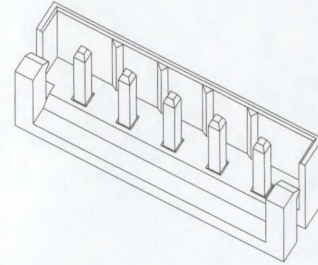
Plating: Tin

PCB Thickness: 1.60mm (.063")

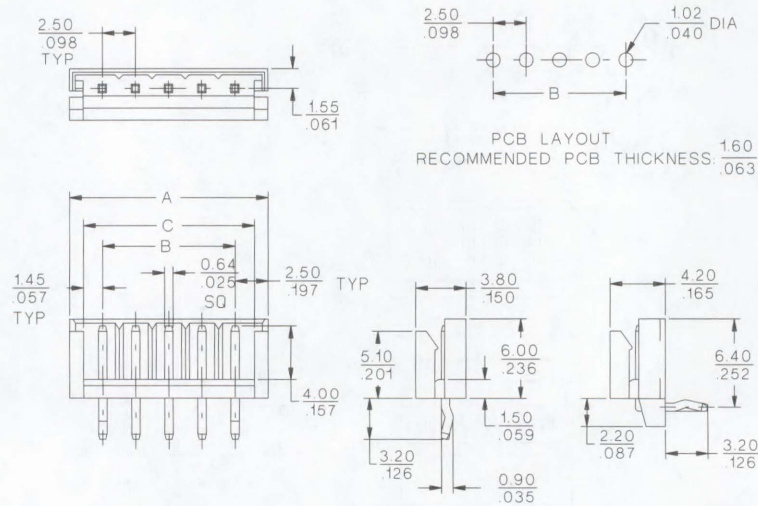
Operating Temperature: -20 to +85°C

molex® 2.50mm (.098") Pitch Wire-to-Board Header

67279



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension		
	Vertical	Right Angle	A	B	C
2	67279-0200	67279-0210	7.50 (.295)	2.50 (.098)	5.50 (.217)
3	67279-0300	67279-0310	10.00 (.393)	5.00 (.196)	8.00 (.315)
4	67279-0400	67279-0410	12.50 (.492)	7.50 (.295)	10.50 (.413)
5	67279-0500	67279-0510	15.00 (.590)	10.00 (.393)	13.00 (.512)
6	67279-0600	67279-0610	17.50 (.689)	12.50 (.492)	15.50 (.610)
7	67279-0700	67279-0710	20.00 (.787)	15.00 (.590)	18.00 (.709)
8	67279-0800	67279-0810	22.50 (.886)	17.50 (.689)	20.50 (.807)
9	67279-0900	67279-0910	25.00 (.984)	20.00 (.787)	23.00 (.906)
10	67279-1000	67279-1010	27.50 (1.083)	22.50 (.886)	25.50 (1.004)
11	67279-1100	67279-1110	30.00 (1.181)	25.00 (.984)	28.00 (1.102)
12	67279-1200	67279-1210	32.50 (1.280)	27.50 (1.083)	30.50 (1.201)
13	67279-1300	67279-1310	35.00 (1.378)	30.00 (1.181)	33.00 (1.299)
14	67279-1400	67279-1410	37.50 (1.476)	32.50 (1.280)	35.50 (1.398)
15	67279-1500	67279-1510	40.00 (1.575)	35.00 (1.378)	38.00 (1.496)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Box design provides two points of contact and terminal protection
- Locking tang for secure housing retention

Reference Information

Product Specification: PS-67261-003

Packaging: Reel

Mates With: 67280

Use With: 67261

Designed In: Millimeters

Electrical

Contact Resistance: 20mΩ max.

Mechanical

Contact Retention to Housing: 14.7N (3.3 lb) min.

Wire Pull-out Force: 30 AWG — 4.9N (1.1 lb) min.

28 AWG — 9.8N (2.2 lb) min.

26 AWG — 19.6N (4.4 lb) min.

24 AWG — 29.4N (6.6 lb) min.

22 AWG — 49.0N (11.0 lb) min.

Physical

Insulation Diameter: 0.20mm (.008")

Contact: Brass

Plating: Tin

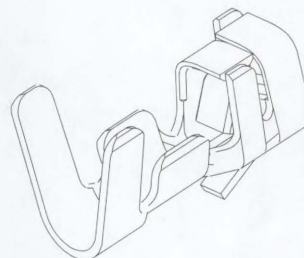
Wire Gauge : 22 to 30 AWG

Operating Temperature : -20 to +85°C



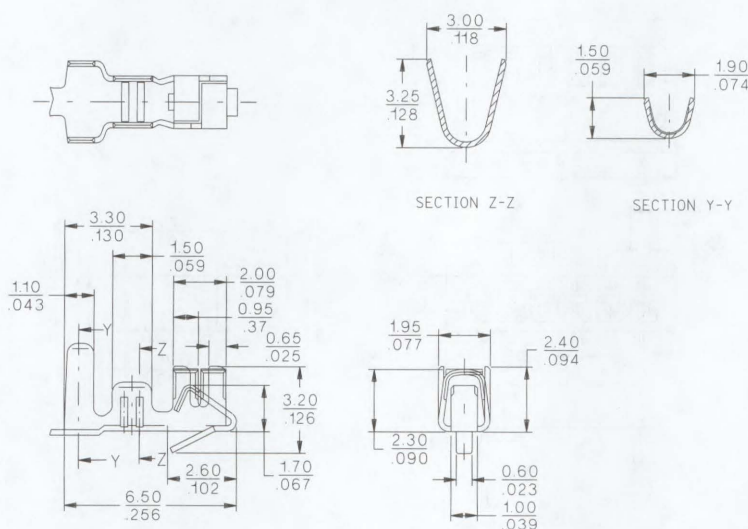
2.50mm (.098") Pitch Wire-to-Board Crimp Terminal

67262



B
2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.
67262-0001

FEATURES AND SPECIFICATIONS

Features and Benefits

- Size 2 to 15 circuits
- Friction lock provides secure mating

Reference Information

Product Specification: PS-67261-003

Packaging: Bag

Mates With: 67280

Use With: 67262

Designed In: Millimeters

Electrical

Dielectric Withstanding Voltage: 1000V AC/1 min

Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 83.3N (18.7 lb) max.

Unmating Force: 0.98N (0.22 lb) min.

Contact Retention to Housing: 14.7N (3.3 lb) min.

Physical

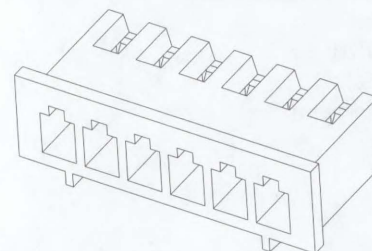
Housing: White Nylon 66, UL 94V-0

Operating Temperature: -20 to +85°C

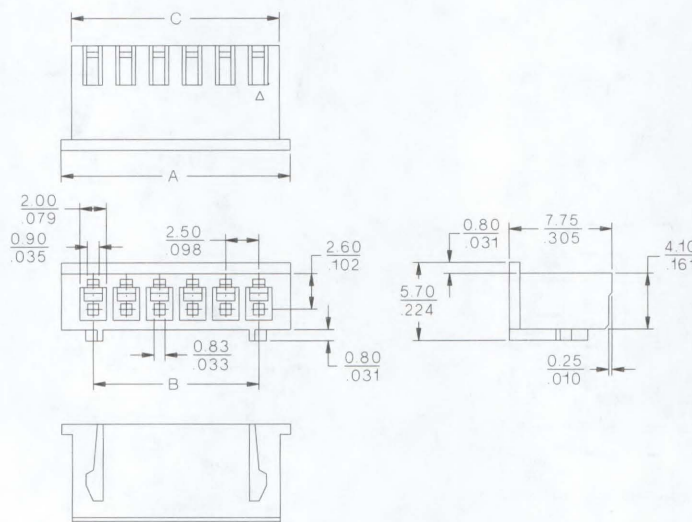


2.50mm (.098") Pitch Wire-to-Board Housing

67261



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	67261-0200	7.30 (.287)	2.50 (.098)	5.70 (.224)
3	67261-0300	9.80 (.386)	5.00 (.196)	8.20 (.323)
4	67261-0400	12.30 (.484)	7.50 (.295)	10.70 (.421)
5	67261-0500	14.80 (.583)	10.00 (.393)	13.20 (.513)
6	67261-0600	17.30 (.681)	12.50 (.492)	15.70 (.618)
7	67261-0700	19.80 (.779)	15.00 (.590)	18.20 (.717)
8	67261-0800	22.30 (.878)	17.50 (.689)	20.70 (.815)
9	67261-0900	24.80 (.976)	20.00 (.787)	23.20 (.913)
10	67261-1000	27.30 (1.075)	22.50 (.886)	25.70 (1.012)
11	67261-1100	29.80 (1.173)	25.00 (.984)	28.40 (1.118)
12	67261-1200	32.30 (1.272)	27.50 (1.083)	30.70 (1.209)
13	67261-1300	34.80 (1.370)	30.00 (1.181)	33.20 (1.307)
14	67261-1400	37.30 (1.469)	32.50 (1.280)	35.70 (1.406)
15	67261-1500	39.80 (1.567)	35.00 (1.378)	38.20 (1.504)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Size 2 to 15 circuits
- Standoffs facilitate post solder cleaning
- Locking windows provide secure mating

Reference Information

Product Specification: PS-67261-003

Packaging: Bag

Mates With: 67261

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 1.0A min.

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 83.3N (18.7 lb) max.

Unmating Force: 0.98N (0.22 lb) min.

Durability: 50 cycles

Physical

Housing: Thermoplastic, UL 94V-0

Contact: Brass

Plating: Tin

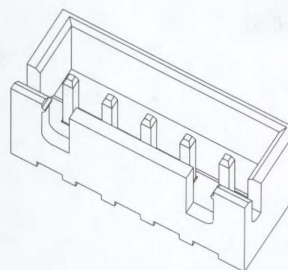
PCB Thickness: 1.60mm (.063")

Operating Temperature: -20 to +85°C



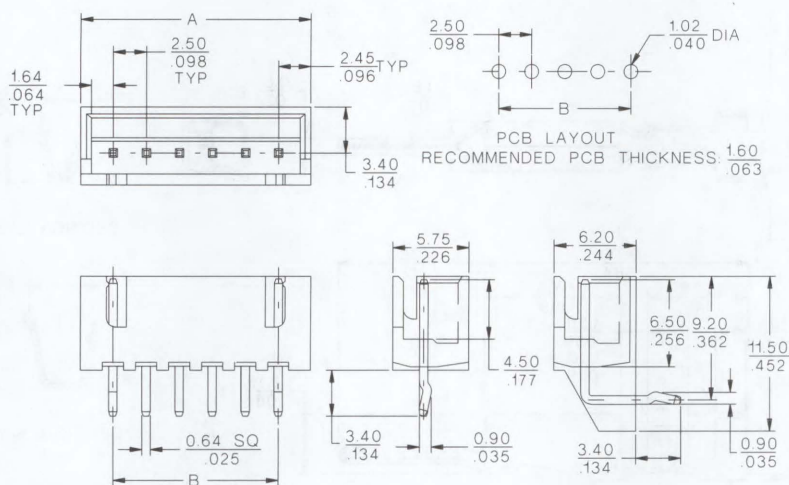
2.50mm (.098") Pitch Wire-to-Board Header

67280



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Vertical	Right Angle	A	B
2	67280-0200	67280-0210	7.50 (.295)	2.50 (.098)
3	67280-0300	67280-0310	10.00 (.393)	5.00 (.196)
4	67280-0400	67280-0410	12.50 (.492)	7.50 (.295)
5	67280-0500	67280-0510	15.00 (.590)	10.00 (.393)
6	67280-0600	67280-0610	17.50 (.689)	12.50 (.492)
7	67280-0700	67280-0710	20.00 (.787)	15.00 (.590)
8	67280-0800	67280-0810	22.50 (.886)	17.50 (.689)
9	67280-0900	67280-0910	25.00 (.984)	20.00 (.787)
10	67280-1000	67280-1010	27.50 (1.083)	22.50 (.886)
11	67280-1100	67280-1110	30.00 (1.181)	25.00 (.984)
12	67280-1200	67280-1210	32.50 (1.280)	27.50 (1.083)
13	67280-1300	67280-1310	35.00 (1.378)	30.00 (1.181)
14	67280-1400	67280-1410	37.50 (1.476)	32.50 (1.280)
15	67280-1500	67280-1510	40.00 (1.575)	35.00 (1.378)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Locking window provides secure mating retention to housing lance

Reference Information

Product Specification: PS-51198-003

Packaging: Reel or bag

Mates With: 50351 and 50752

Use With: 51198

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: Phosphor Bronze

Plating: Tin

Wire Range: 22 to 28 AWG

Insulation Diameter: 1.15 to 1.80mm (.045 to .071")

Strip Length: 2.30 to 2.80mm (.091 to .110")

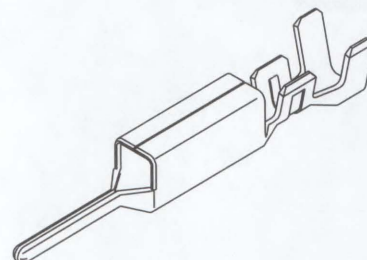
Operating Temperature: -40 to +105°C



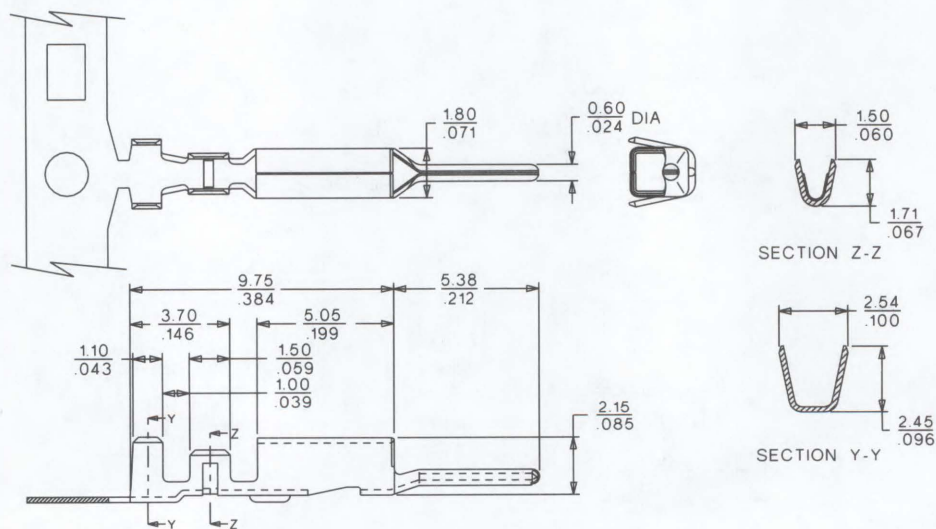
2.50mm (.098") Pitch Wire-to-Wire Crimp Terminal

50837

Male



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Packaging
50837-8000	Reel
50837-8100	Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- One-piece mounting ears provide easy panel attachment and secure retention
- Guide ramp helps facilitate mating
- Housing locking tang for secure terminal retention
- Polarized for correct mating

Reference Information

Product Specification: PS-51198-003

Packaging: Bag

UL File No.: E29179

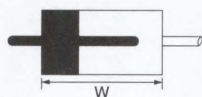
CSA File No.: LR19980

Mates With: 51103

Use With: 50837

Designed In: Millimeters

Mating Dimensions
51198/50837/51103/
50351 or 50752
W=23.00mm (.906")



Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: White PBT, UL 94V-0

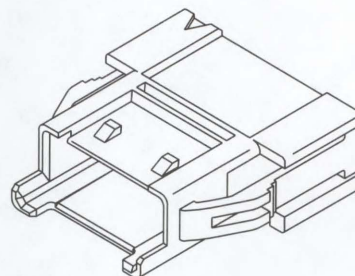
Operating Temperature: -40 to +105°C



2.50mm (.098") Pitch
Wire-to-Wire
Plug

51198

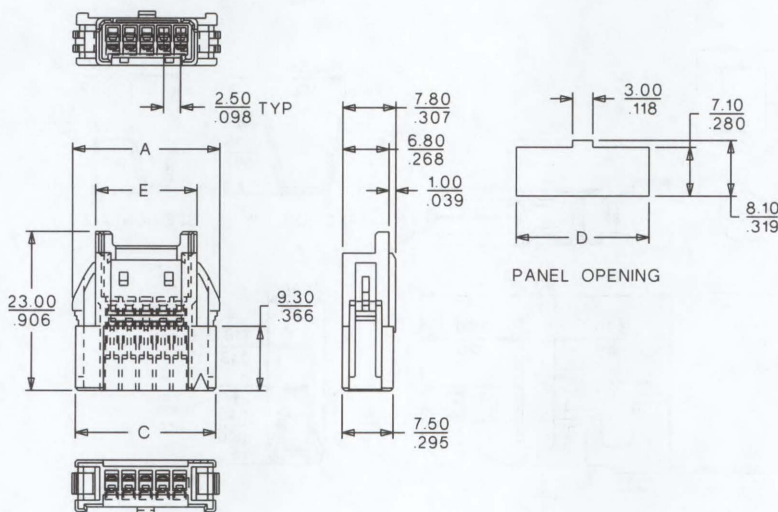
Positive Lock
Panel Mount



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension			
		A	C	D	E
2	51198-0200	14.20 (.559)	13.20 (.520)	12.10 (.476)	7.40 (.291)
3	51198-0300	16.70 (.657)	15.70 (.618)	14.60 (.575)	9.90 (.390)
4	51198-0400	19.20 (.756)	18.20 (.717)	17.10 (.673)	12.40 (.488)
5	51198-0500	21.70 (.854)	20.70 (.815)	19.60 (.772)	14.90 (.587)
6	51198-0600	24.20 (.953)	23.20 (.913)	22.10 (.870)	17.40 (.685)
7	51198-0700	26.70 (1.051)	25.70 (1.012)	24.60 (.969)	19.90 (.783)
8	51198-0800	29.20 (1.150)	28.20 (1.110)	27.10 (1.067)	22.40 (.882)
9	51198-0900	31.70 (1.248)	30.70 (1.209)	29.60 (1.165)	24.90 (.980)
10	51198-1000	34.20 (1.346)	33.20 (1.307)	32.10 (1.264)	27.40 (1.079)
11	51198-1100	36.70 (1.445)	35.70 (1.406)	34.60 (1.362)	29.90 (1.177)
12	51198-1200	39.20 (1.543)	38.20 (1.504)	37.10 (1.461)	32.40 (1.276)
13	51198-1300	41.70 (1.642)	40.70 (1.602)	39.60 (1.559)	34.90 (1.374)
14	51198-1400	44.20 (1.740)	43.20 (1.701)	42.10 (1.657)	37.40 (1.472)
15	51198-1500	46.70 (1.839)	45.70 (1.799)	44.60 (1.756)	39.90 (1.571)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Four points of contact
- Housing lance provides secure terminal retention

Reference Information

Packaging: Reel or bag
Use With: 51102 and 51103
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A

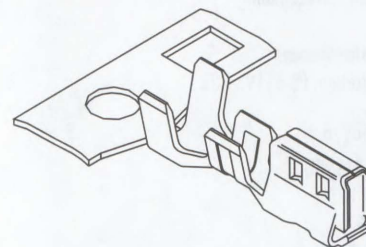
Physical

Contact: Phosphor Bronze
Plating: Tin
Wire Range: 22 to 28 AWG
Insulation Range: 1.15 to 1.80mm dia.
Strip Length: 2.30 to 2.80mm

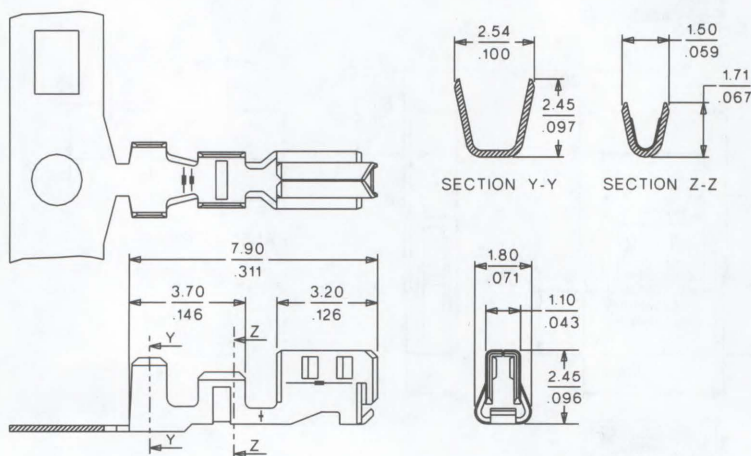


2.50mm (.098") Pitch Wire-to-Board Crimp Terminal

50351



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Terminal
50351-8000	Reel
50351-8100	Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Four points of contact
- Terminal design locks into housing lance

Reference Information

Product specification: Contact Inside Sales

Packaging: Reel or bag

Mates With: 51103 and 51163

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Contact: Phosphor Bronze

Plating: Tin

Wire Range: 22 to 28 AWG

Insulation Range: 1.15 to 1.80mm (.045 to .070") dia.

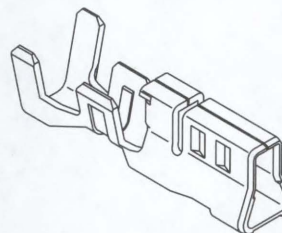
Strip Length: 2.00 to 2.50mm (.079 to .098")



2.50mm (.098") Pitch Wire-to-Board Crimp Terminal

50752

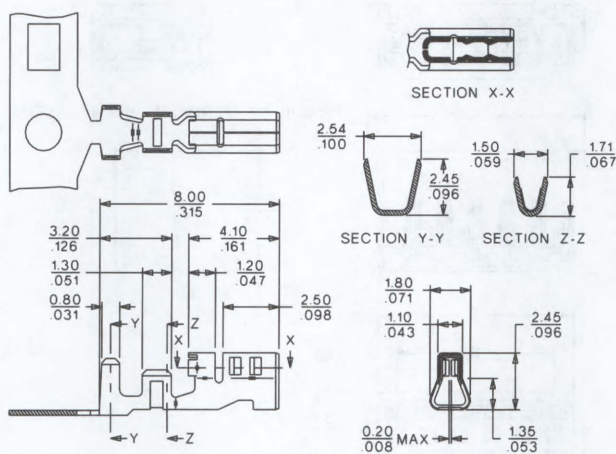
Female



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

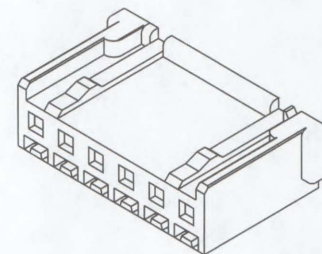
Order No.	Packaging
50752-8000	Reel
50752-8100	Bag



2.50mm (.098") Pitch Wire-to-Board Housing

51102

Friction Lock Type



FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Friction lock provides secure mating retention
- Pull tabs on top and sides enable easy extraction
- Housing lance provides secure terminal retention

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

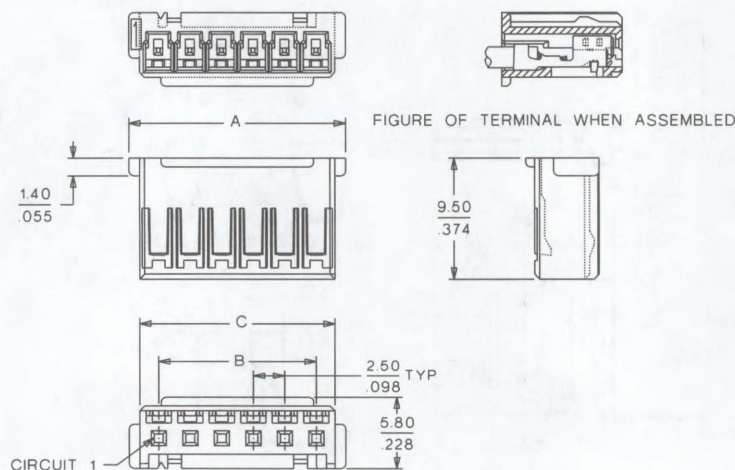
Housing: White PBTP, UL 94V-0
Operating Temperature: -40 to +105°C

Reference Information

Packaging: Bag
Mates With: 53375, 53426 and 53517
Use With: 50351
Designed In: Millimeters

B
2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	51102-0200	7.20 (.283)	2.50 (.098)	5.50 (.217)
3	51102-0300	9.70 (.382)	5.00 (.197)	8.00 (.315)
4	51102-0400	12.20 (.480)	7.50 (.295)	10.50 (.413)
5	51102-0500	14.70 (.579)	10.00 (.394)	13.00 (.512)
6	51102-0600	17.20 (.677)	12.50 (.492)	15.50 (.610)
7	51102-0700	19.70 (.776)	15.00 (.591)	18.00 (.709)
8	51102-0800	22.20 (.874)	17.50 (.689)	20.50 (.807)
9	51102-0900	24.70 (.972)	20.00 (.787)	23.00 (.906)
10	51102-1000	27.20 (1.071)	22.50 (.886)	25.50 (1.004)
11	51102-1100	29.70 (1.169)	25.00 (.984)	28.00 (1.102)
12	51102-1200	32.20 (1.268)	27.50 (1.083)	30.50 (1.201)
13	51102-1300	34.70 (1.366)	30.00 (1.181)	33.00 (1.299)
14	51102-1400	37.20 (1.465)	32.50 (1.280)	35.50 (1.398)
15	51102-1500	39.70 (1.563)	35.00 (1.378)	38.00 (1.496)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Anti-overstress feature protects latch
- Pull tabs on top and side enable easy extraction
- Housing lance provides secure terminal retention

Reference Information

Packaging: Bag
UL File No.: E29179
Mates With: 53375, 53426 and 53517
Use With: 50351
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

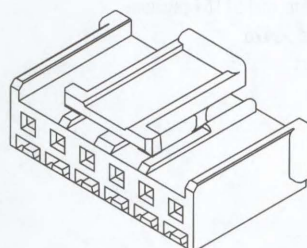
Housing: White PBTP, UL 94V-0
Operating Temperature: -40 to +105°C



2.50mm (.098") Pitch Wire-to-Board Housing

51103

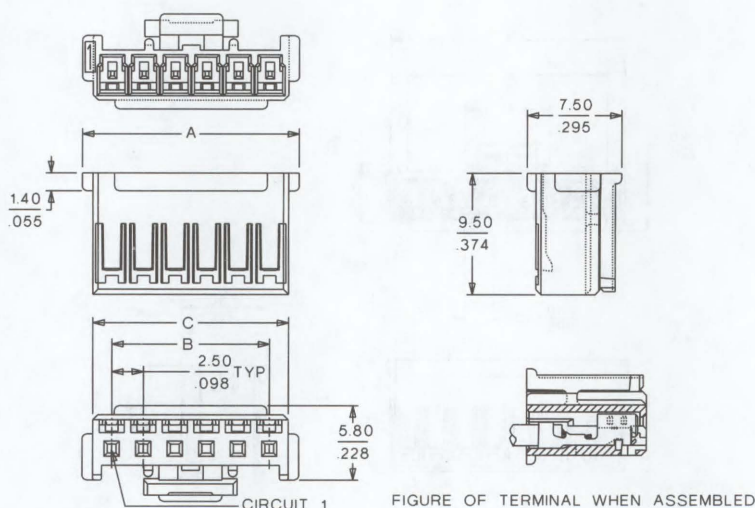
Positive Lock Type



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	51103-0200	7.20 (.283)		5.50 (.217)
3	51103-0300	9.70 (.382)	5.00 (.197)	8.00 (.315)
4	51103-0400	12.20 (.480)	7.50 (.295)	10.50 (.413)
5	51103-0500	14.70 (.579)	10.00 (.394)	13.00 (.512)
6	51103-0600	17.20 (.677)	12.50 (.492)	15.50 (.610)
7	51103-0700	19.70 (.776)	15.00 (.591)	18.00 (.709)
8	51103-0800	22.20 (.874)	17.50 (.689)	20.50 (.807)
9	51103-0900	24.70 (.972)	20.00 (.787)	23.00 (.906)
10	51103-1000	27.20 (1.071)	22.50 (.886)	25.50 (1.004)
11	51103-1100	29.70 (1.169)	25.00 (.984)	28.00 (1.102)
12	51103-1200	32.20 (1.268)	27.50 (1.083)	30.50 (1.201)
13	51103-1300	34.70 (1.366)	30.00 (1.181)	33.00 (1.299)
14	51103-1400	37.20 (1.465)	32.50 (1.280)	35.50 (1.398)
15	51103-1500	39.70 (1.563)	35.00 (1.378)	38.00 (1.496)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Positive lock latch provides secure mating retention
- Anti-overstress feature protects latch
- Housing lance provides secure terminal retention

Reference Information

Product specification: Contact Inside Sales
 Packaging: Bag
 Use With: 50752 terminal and 51164 retainer
 Mates With: 53375 and 53426
 Designed In: Millimeters

Electrical

Voltage: 250V
 Current: 3A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1000V AC/1 min.
 Insulation Resistance: 1000 MΩ min.

Physical

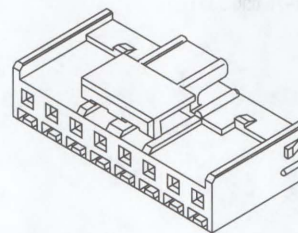
Housing: White PBTP, UL 94V-0
 Operating Temperature: -40 to +105°C



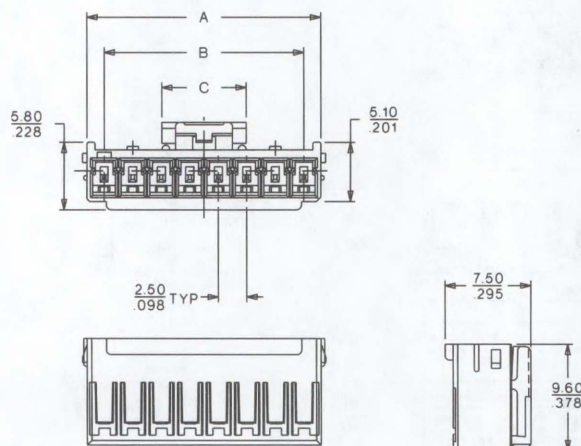
2.50mm (.098") Pitch Wire-to-Board Housing

51163

Positive Lock Type



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	51163-0200	5.5 (.217)	2.5 (.098)	3.6 (.142)
3	51163-0300	8.0 (.315)	5.0 (.197)	5.0 (.197)
4	51163-0400	10.5 (.413)	7.5 (.295)	7.4 (.291)
5	51163-0500	13.0 (.512)	10.0 (.394)	7.4 (.291)
6	51163-0600	15.5 (.610)	12.5 (.492)	7.4 (.291)
7	51163-0700	18.0 (.709)	15.0 (.591)	7.4 (.291)
8	51163-0800	20.5 (.807)	17.5 (.689)	7.4 (.291)
9	51163-0900	23.0 (.906)	20.0 (.787)	7.4 (.291)
10	51163-1000	25.5 (1.004)	22.5 (.886)	7.4 (.291)
11	51163-1100	28.0 (1.102)	25.0 (.984)	7.4 (.291)
12	51163-1200	30.5 (1.201)	27.5 (1.083)	7.4 (.291)
13	51163-1300	33.0 (1.299)	30.0 (1.181)	7.4 (.291)
14	51163-1400	35.5 (1.398)	32.5 (1.280)	7.4 (.291)
15	51163-1500	38.0 (1.496)	35.0 (1.378)	7.4 (.291)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Provides additional terminal retention and alignment

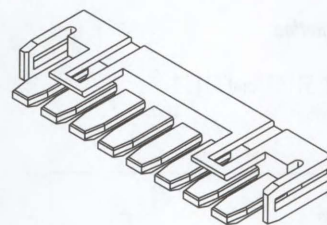
Physical

Housing: Gray PBTP, UL 94V-0
Operating Temperature: -40 to +105°C



2.50mm (.098") Pitch Wire-to-Board Terminal Retainer

51164



Reference Information

Product specification: Contact Inside Sales

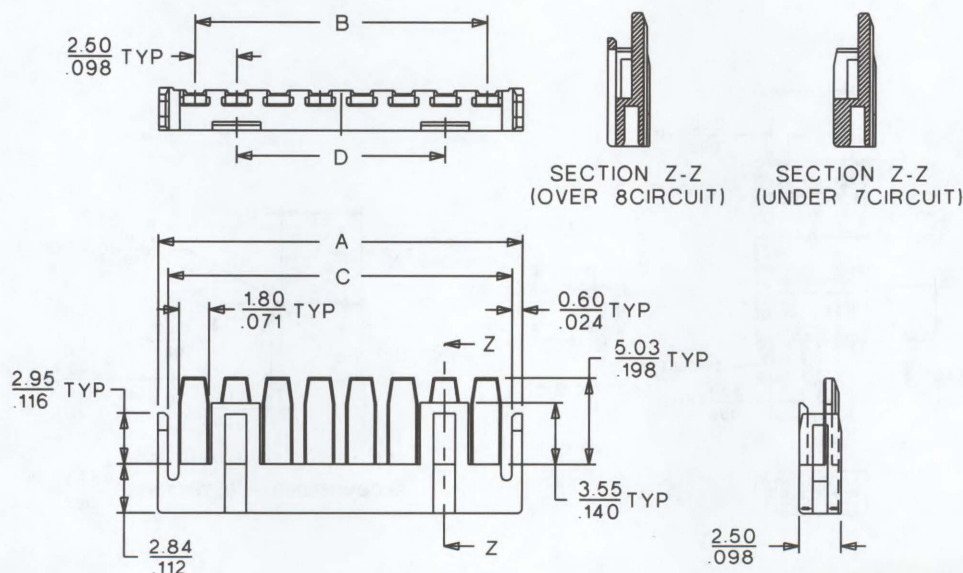
Packaging: Bag

Use With: 51163

Designed In: Millimeters

2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension			
		A	B	C	D
2	51164-0205	6.8 (.268)	2.5 (.098)	5.6 (.220)	
3	51164-0305	9.3 (.366)	5.0 (.197)	8.1 (.319)	
4	51164-0405	11.8 (.465)	7.5 (.295)	10.6 (.417)	
5	51164-0505	14.3 (.563)	10.0 (.394)	13.1 (.516)	
6	51164-0605	16.8 (.661)	12.5 (.492)	15.6 (.614)	
7	51164-0705	19.3 (.760)	15.0 (.591)	18.1 (.713)	
8	51164-0805	21.8 (.858)	17.5 (.689)	20.6 (.811)	12.5 (.492)
9	51164-0905	24.3 (.957)	20.0 (.787)	23.1 (.909)	12.5 (.492)
10	51164-1005	26.8 (1.055)	22.5 (.886)	25.6 (1.008)	12.5 (.492)
11	51164-1105	29.3 (1.154)	25.0 (.984)	28.1 (1.106)	12.5 (.492)
12	51164-1205	31.8 (1.252)	27.5 (1.083)	30.6 (1.205)	12.5 (.492)
13	51164-1305	34.3 (1.350)	30.0 (1.181)	33.1 (1.303)	12.5 (.492)
14	51164-1405	36.8 (1.449)	32.5 (1.280)	35.6 (1.402)	12.5 (.492)
15	51164-1505	39.3 (1.547)	35.0 (1.378)	38.1 (1.500)	12.5 (.492)

FEATURES AND SPECIFICATIONS

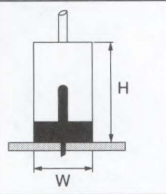
Features and Benefits

- Sizes 2 to 15 circuits
- Locking ribs and holes accept either positive or friction-locking housings
- High guide walls protect terminals and facilitate mating
- Kinked PC tails provide secure PCB retention

Reference Information

Packaging: Bag
Mates With: 51102, 51103, and 51163
Designed In: Millimeters

Mating Dimensions
1.53375/51102/50351
H=11.5mm W=6.8mm
2.53375/51103/50351
H=11.5mm W=7.6mm



Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

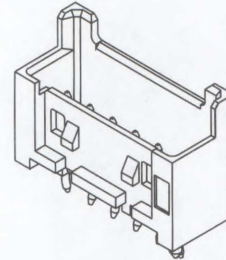
Physical

Housing: Glass-filled PBTP, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C

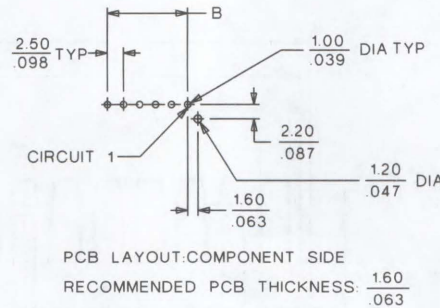
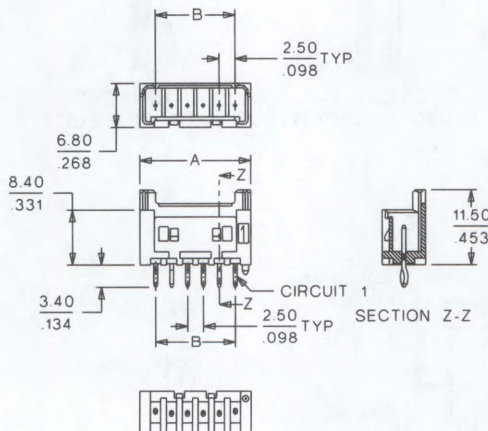
molex® 2.50mm (.098") Pitch Wire-to-Board Header

53375

Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	53375-0210	7.4 (.291)	2.50 (.098)
3	53375-0310	9.9 (.390)	5.00 (.197)
4	53375-0410	12.4 (.488)	7.50 (.295)
5	53375-0510	14.9 (.587)	10.00 (.394)
6	53375-0610	17.4 (.685)	12.50 (.492)
7	53375-0710	19.9 (.783)	15.00 (.591)
8	53375-0810	22.4 (.882)	17.50 (.689)
9	53375-0910	24.9 (.980)	20.00 (.787)
10	53375-1010	27.4 (1.079)	22.50 (.886)
11	53375-1110	29.9 (1.177)	25.00 (.984)
12	53375-1210	32.4 (1.276)	27.50 (1.083)
13	53375-1310	34.9 (1.374)	30.00 (1.181)
14	53375-1410	37.4 (1.472)	32.50 (1.280)
15	53375-1510	39.9 (1.571)	35.00 (1.378)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 8 circuits
- Radial tape enables high volume automatic placement of through hole components
- Locking ribs and holes accept either positive or friction-locking housings
- High guide walls protect terminals and facilitate mating
- Kinked PC tails provide secure PCB retention

Reference Information

Packaging: Radial tape

Mates With: 51102, 51103, and 51163

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: Glass-filled PBTP, UL 94V-0

Contact: Phosphor Bronze

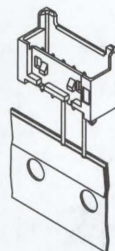
Plating: Tin

Operating Temperature: -40 to +105°C

molex® 2.50mm (.098") Pitch Wire-to-Board Header

53375

Vertical Radial Tape



Mating Dimensions

1. 53375/51102/50351

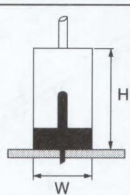
H=11.55mm (.453") W=6.8mm (.269")

2. 53375/51103/50351/50752

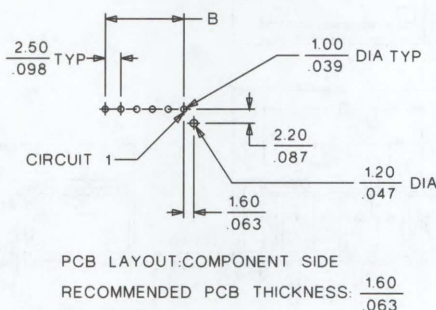
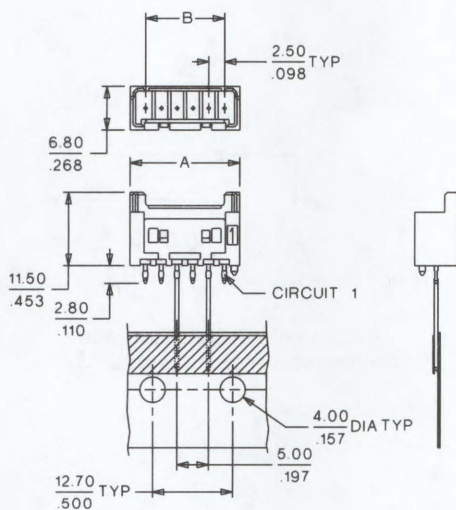
H=11.55mm (.453") W=7.6mm (.299")

3. 53375/51163/51164/50752

H=14.44mm (.568") W=7.55mm (.297")



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	53375-0290	7.40 (.291)	2.50 (.098)
3	53375-0390	9.90 (.390)	5.00 (.197)
4	53375-0490	12.40 (.488)	7.50 (.295)
5	53375-0590	14.90 (.587)	10.00 (.394)
6	53375-0690	17.40 (.685)	12.50 (.492)
7	53375-0790	19.90 (.783)	15.00 (.591)
8	53375-0890	22.40 (.882)	17.50 (.689)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

Features and Benefits

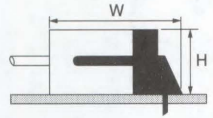
- Sizes 2 to 15 circuits
- Locking ribs and holes accept either positive or friction-locking housings
- Shrouded design protects terminals and facilitates mating
- Kinked PC tails provide secure PCB retention

Reference Information

Packaging: Tray
 UL File No.: E29179
 Mates With: 51102, 51103, and 51163
 Designed In: Millimeters

Mating Dimensions

- 53426/51102/50351
 H=6.7mm (.264")
 W=14.35mm (.565")
- 53426/51103/50351/50752
 H=7.75mm (.305")
 W=14.35mm (.565")
- 53426/51163/51164/50752
 H=9.35mm (.368")
 W=15.59mm (.612")



Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1000V AC/1 min.
 Insulation Resistance: 1000 MΩ min.

Physical

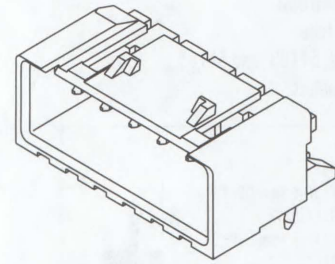
Housing: Glass-filled PBTP, UL 94V-0
 Contact: Phosphor Bronze
 Plating: Tin
 Operating Temperature: -40 to +105°C



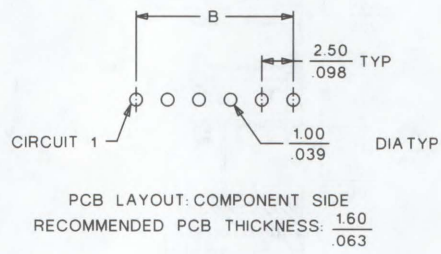
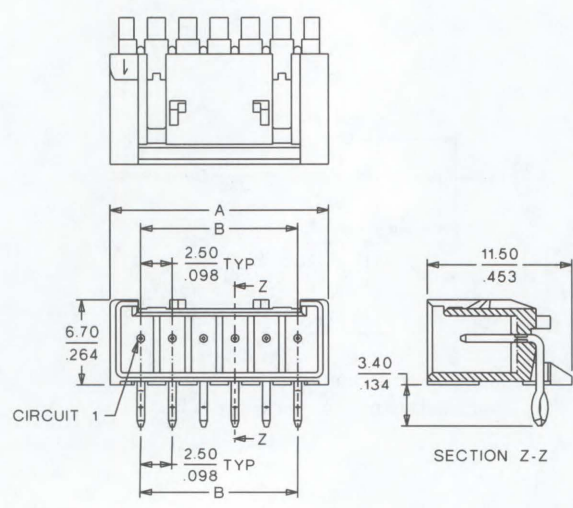
2.50mm (.098") Pitch Wire-to-Board Header

53426

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		dA	B
2	53426-0210	7.4 (.291)	2.50 (.098)
3	53426-0310	9.9 (.390)	5.00 (.197)
4	53426-0410	12.4 (.488)	7.50 (.295)
5	53426-0510	14.9 (.587)	10.00 (.394)
6	53426-0610	17.4 (.685)	12.50 (.492)
7	53426-0710	19.9 (.783)	15.00 (.591)
8	53426-0810	22.4 (.882)	17.50 (.689)
9	53426-0910	24.9 (.980)	20.00 (.787)
10	53426-1010	27.4 (1.079)	22.50 (.886)
11	53426-1110	29.9 (1.177)	25.00 (.984)
12	53426-1210	32.4 (1.276)	27.50 (1.083)
13	53426-1310	34.9 (1.374)	30.00 (1.181)
14	53426-1410	37.4 (1.472)	32.50 (1.280)
15	53426-1510	39.9 (1.571)	35.00 (1.378)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 8 circuits
- Radial tape enables high volume automatic placement of through hole components
- Locking ribs and holes accept either positive or friction-locking housings
- Shrouded design protects terminals and facilitates mating
- Kinked PC tails provide secure PCB retention

Reference Information

Packaging: Radial tape

UL File No.: E29179

Mates With: 51102, 51103, and 51163

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: Glass-filled PBTP, UL 94V-0

Contact: Phosphor Bronze

Plating: Tin

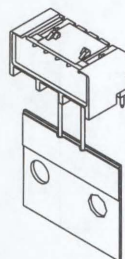
Operating Temperature: -40 to +105°C



2.50mm (.098") Pitch Wire-to-Board Header

53426

Right Angle Radial Tape



Mating Dimensions

1. 53426/51102/50351

H=8.2mm (.323")

W=12.65mm (.498")

2. 53426/51103/50351/50752

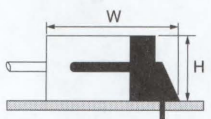
H=9.25mm (.364")

W=12.65mm (.498")

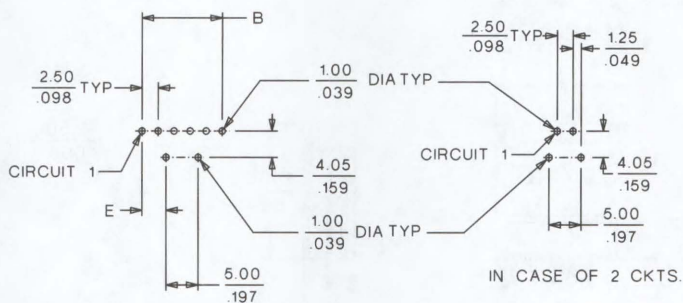
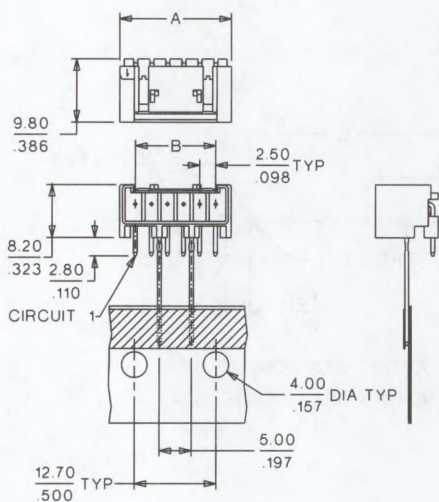
3. 53426/51163/51164/50752

H=9.35mm (.368")

W=15.59mm (.612")



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 1.60 .063

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	53426-0290	7.40 (.291)	2.50 (.098)
3	53426-0390	9.90 (.390)	5.00 (.197)
4	53426-0490	12.40 (.488)	7.50 (.295)
5	53426-0590	14.90 (.587)	10.00 (.394)
6	53426-0690	17.40 (.685)	12.50 (.492)
7	53426-0790	19.90 (.783)	15.00 (.591)
8	53426-0890	22.40 (.882)	17.50 (.689)

2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES AND SPECIFICATIONS

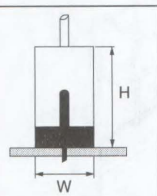
Features and Benefits

- Sizes 2 to 15 circuits
- Potting type used for sealing components in white goods applications
- Bottom ridge protects terminal signal area during potting

Reference Information

Packaging: Tray
UL File No.: E29179
Mates With: 51102 and 51103
Designed In: Millimeters

Mating Dimensions
1.53517/51102/50351
H=17.5mm W=6.8mm
2.53517/51103/50351
H=17.5mm W=7.6mm



Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

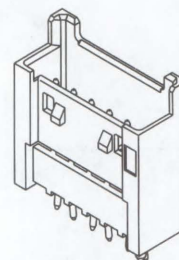
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



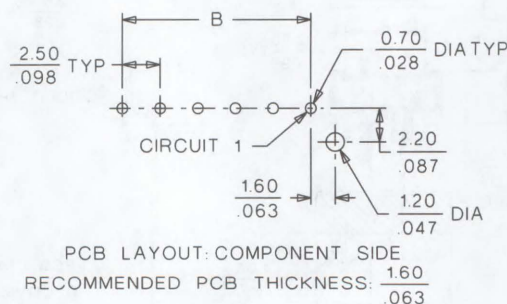
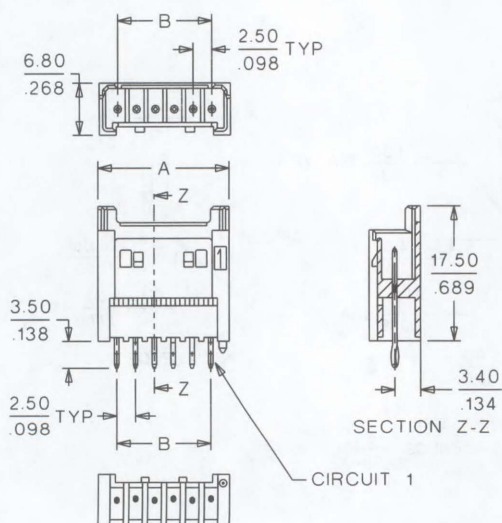
2.50mm (.098") Pitch Wire-to-Board Header

53517

Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	53517-0210	7.4 (.291)	2.50 (.098)
3	53517-0310	9.9 (.390)	5.00 (.197)
4	53517-0410	12.4 (.488)	7.50 (.295)
5	53517-0510	14.9 (.587)	10.00 (.394)
6	53517-0610	17.4 (.685)	12.50 (.492)
7	53517-0710	19.9 (.783)	15.00 (.591)
8	53517-0810	22.4 (.882)	17.50 (.689)
9	53517-0910	24.9 (.980)	20.00 (.787)
10	53517-1010	27.4 (1.079)	22.50 (.886)
11	53517-1110	29.9 (1.177)	25.00 (.984)
12	53517-1210	32.4 (1.276)	27.50 (1.083)
13	53517-1310	34.9 (1.374)	30.00 (1.181)
14	53517-1410	37.4 (1.472)	32.50 (1.280)
15	53517-1510	39.9 (1.571)	35.00 (1.378)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 8 circuits
- Radial tape enables high volume automatic placement of through hole components
- Potting type used for sealing components in White Goods applications
- Bottom ridge protects terminal signal area during potting
- High guide walls protect terminals and facilitate mating
- Locking ribs and holes accept either positive or friction-locking housings

Reference Information

Product specification: Contact Inside Sales
Packaging: Radial tape
UL File No.: E29179
Mates With: 51103
Designed In: Millimeters

Electrical

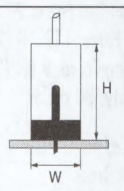
Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C

Mating Dimensions

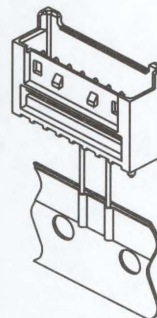
53608/51103/50351 or 50752
H=16.25mm (.640") W=7.60mm (.299")



2.50mm (.098") Pitch Wire-to-Board Header

53608

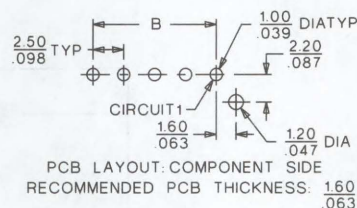
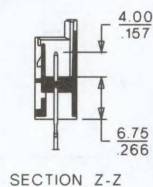
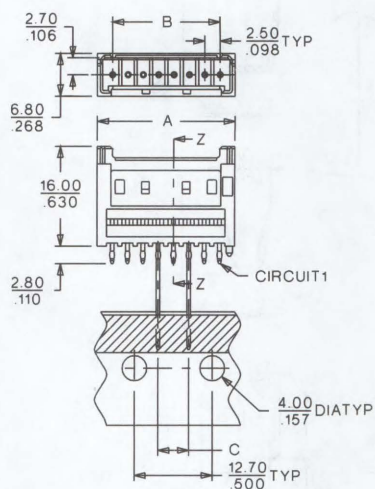
Vertical Radial Tape



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	53608-0290	7.4 (.291)	2.5 (.098)	2.5 (.098)
3	53608-0390	9.9 (.390)	5.0 (.197)	5.0 (.197)
4	53608-0490	12.4 (.488)	7.5 (.295)	5.0 (.197)
5	53608-0590	14.9 (.587)	10.0 (.394)	5.0 (.197)
6	53608-0690	17.4 (.685)	12.5 (.492)	5.0 (.197)
7	53608-0790	19.9 (.783)	15.0 (.591)	5.0 (.197)
8	53608-0890	22.4 (.882)	17.5 (.689)	5.0 (.197)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Rigid contact

Reference Information

Product Specification: PS-35184

Packaging: Reel

Mates With: 5103

Use With: 35184

Designed In: Millimeters

Electrical

Voltage: 250V

Current:

AWG	22	24	26	28
Amperes	3.0	2.5	1.5	1.0

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 500 MΩ min.

Mechanical

Contact Insertion Force: 14.7N (3.3 lb) max.

Contact Retention to Housing: 14.7N (3.3 lb) min.

Wire Pull-Out Force: 22 AWG—39.2N (8.8 lb) min.

Mating Force: 117.7N (26.5 lb) max.

Unmating Force: 9.8N (2.2 lb) min.

Durability: 30 cycles

Physical

Contact: Brass

Plating: Contact Area—Tin

Underplating—Copper

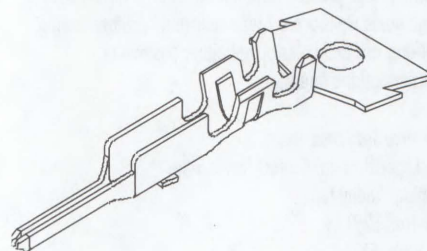
Insulation Diameter: 1.90mm (.075") max.

Wire Gauge: 22 to 28 AWG

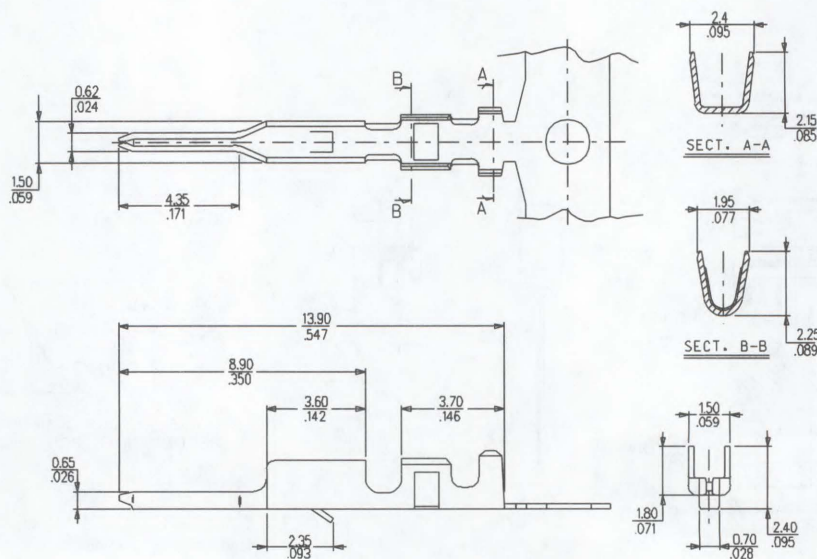


2.50mm (.098") Pitch Wire-to-Wire Terminal

35053



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.
35053-9002

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows secure terminal to housing
- Accepts 22 to 28 AWG

Reference Information

Product Specification: PS-35184

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 35155 and 35572

Use With: 35053

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 500 MΩ min.

Mechanical

Contact Insertion Force: 14.7N (3.3 lb) max.

Contact Retention to Housing: 14.7N (3.3 lb) min.

Mating Force: 117.7N (26.5 lb) max.

Unmating Force: 9.8N (2.2 lb) min.

Durability: 30 cycles

Physical

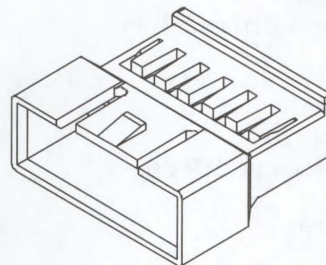
Housing: Polyester, UL 94V-0

Operating Temperature: -40 to +105°C



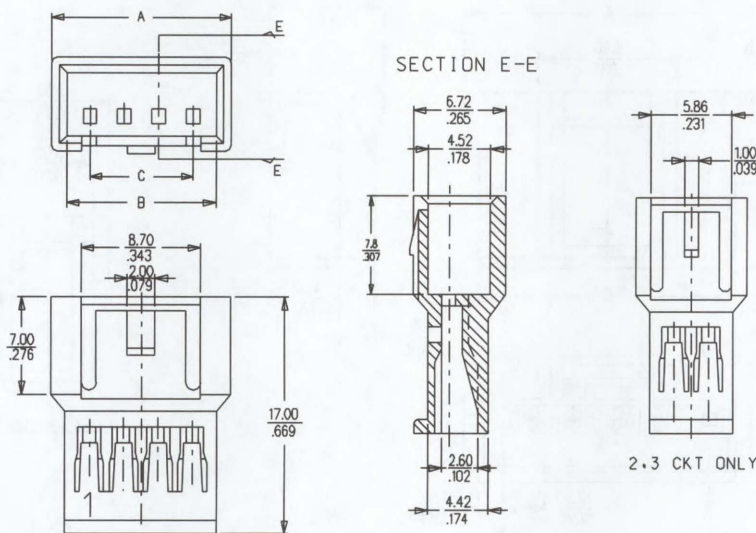
2.50mm (.098") Pitch Wire-to-Wire Plug

35184



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension		
	Natural	Red	A	B	C
2	35184-0200	35184-0202	8.06 (.317)	5.86 (.231)	2.50 (.197)
3	35184-0300	35184-0302	10.56 (.416)	8.36 (.329)	5.00 (.295)
4	35184-0400	35184-0402	13.06 (.514)	10.86 (.428)	7.50 (.394)
5	35184-0500	35184-0502	15.56 (.613)	13.36 (.526)	10.00 (.492)
6	35184-0600	35184-0602	18.06 (.711)	15.86 (.624)	12.50 (.591)
7	35184-0700	35184-0702	20.56 (.809)	18.36 (.723)	15.00 (.689)
8	35184-0800	35184-0802	23.06 (.908)	20.86 (.821)	17.50 (.787)
9	35184-0900	35184-0902	25.56 (1.006)	23.36 (.920)	20.00 (.787)
10	35184-1000	35184-1002	28.06 (1.105)	25.86 (1.018)	22.50 (.886)
11	35184-1100	35184-1102	30.56 (1.203)	28.36 (1.117)	25.00 (.984)
12	35184-1200	35184-1202	33.06 (1.302)	30.86 (1.215)	27.50 (1.083)
13	35184-1300	35184-1302	35.56 (1.400)	33.36 (1.313)	30.00 (1.181)
14	35184-1400	35184-1402	38.06 (1.498)	35.86 (1.412)	32.50 (1.280)
15	35184-1500	35184-1502	40.56 (1.597)	38.36 (1.510)	35.00 (1.378)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Positive locking latch
- Polarization prevents mismatching
- Protective ribs on each side of latch

Reference Information

Product Specification: PS-35155 and PS-35184

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

TUV License No.: R9451371

Mates With: 35312 header and 35184 plug

Use With: 5103

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 14.7N (3.3 lb) max.

Contact Retention to Housing: 14.7N (3.3 lb) min.

Mating Force: 117.7N (26.5 lb) max.

Unmating Force: 21.6N (4.9 lb) min.

Durability: 30 cycles

Physical

Housing: PBTP, UL 94V-0

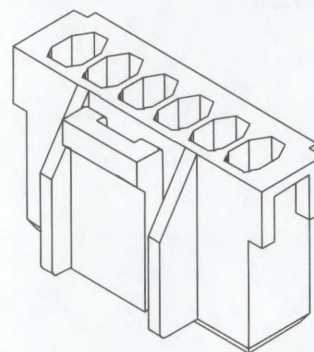
Operating Temperature: -40 to +105°C



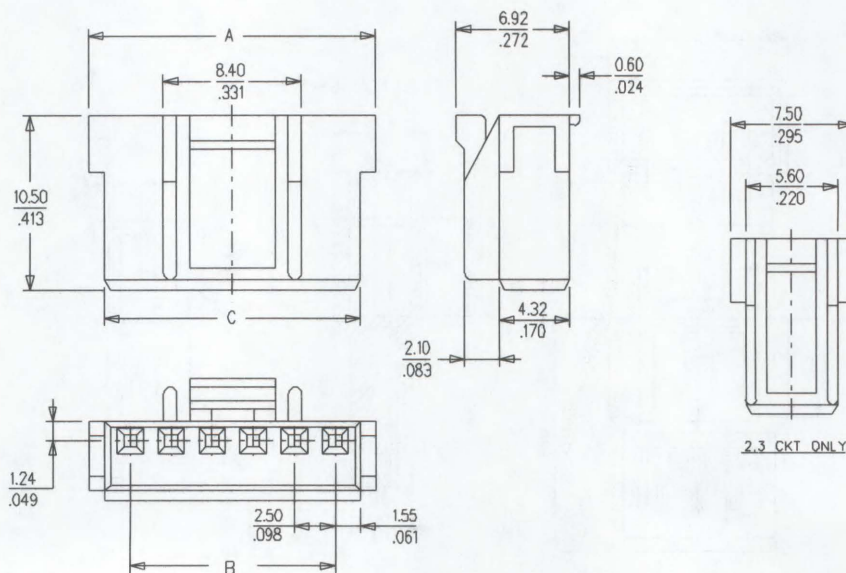
2.50mm (.098") Pitch Wire-to-Wire and Wire-to-Board Housing

35155

Positive Lock



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.				Dimension		
	Natural	Red	Yellow	Blue	A	B	C
2	35155-0200	35155-0202	35155-0203	35155-0204	7.50 (.295)	2.50 (.197)	5.60 (.220)
3	35155-0300	35155-0302	35155-0303	35155-0304	10.00 (.394)	5.00 (.295)	8.10 (.319)
4	35155-0400	35155-0402	35155-0403	35155-0404	12.50 (.492)	7.50 (.295)	10.60 (.417)
5	35155-0500	35155-0502	35155-0503	35155-0504	15.00 (.591)	10.00 (.394)	13.10 (.516)
6	35155-0600	35155-0602	35155-0603	35155-0604	17.50 (.689)	12.50 (.492)	15.60 (.614)
7	35155-0700	35155-0702	35155-0703	35155-0704	20.00 (.787)	15.00 (.591)	18.10 (.713)
8	35155-0800	35155-0802	35155-0803	35155-0804	22.50 (.886)	17.50 (.689)	20.60 (.811)
9	35155-0900	35155-0902	35155-0903	35155-0904	25.00 (.984)	20.00 (.787)	23.10 (.909)
10	35155-1000	35155-1002	35155-1003	35155-1004	27.50 (1.083)	22.50 (.886)	25.60 (1.008)
11	35155-1100	35155-1102	35155-1103	35155-1104	30.00 (1.181)	25.00 (.984)	28.10 (1.106)
12	35155-1200	35155-1202	35155-1203	35155-1204	32.50 (1.280)	27.50 (1.083)	30.60 (1.205)
13	35155-1300	35155-1302	35155-1303	35155-1304	35.00 (1.378)	30.00 (1.181)	33.10 (1.303)
14	35155-1400	35155-1402	35155-1403	35155-1404	37.50 (1.476)	32.50 (1.280)	35.60 (1.402)
15	35155-1500	35155-1502	35155-1503	35155-1504	40.00 (1.575)	35.00 (1.378)	38.10 (1.500)

FEATURES AND SPECIFICATIONS

Features and Benefits

- 4 points of contact
- Box-style design protects contact area

Reference Information

Product Specification: PS-35572-001

Packaging: Reel

Use With: 35572

Designed In: Millimeters

Electrical

Voltage: 250V

Current:

AWG	22	24	26	28
Amperes	3.0	2.5	1.5	1.0

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 500 MΩ min.

Mechanical

Contact Insertion Force: 9.8N (2.2 lb) max.

Contact Retention to Housing: 14.7N (3.3 lb) min.

Wire Pull-Out Force: 22 AWG—39.2N (8.8 lb) min.

Mating Force: 81.4N (18.3 lb) max.

Unmating Force: 16.2N (3.6 lb) min.

Durability: 30 cycles

Physical

Contact: Phosphor Bronze or Brass

Plating: Contact Area—Tin

Underplating—Copper (Brass only)

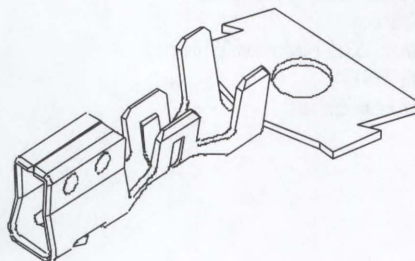
Insulation Diameter: 1.80mm (.071") max.

Wire Gauge: 22 to 28 AWG



2.50mm (.098") Pitch Wire-to-Board Terminal

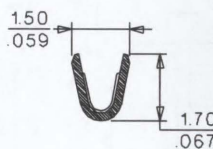
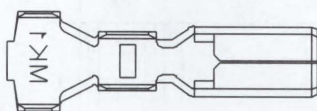
57915



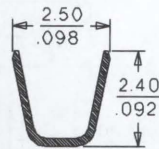
2.00 to 2.50mm (.079 to .098") Pitch

B

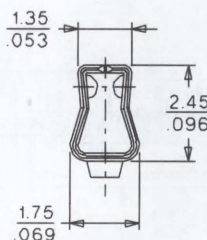
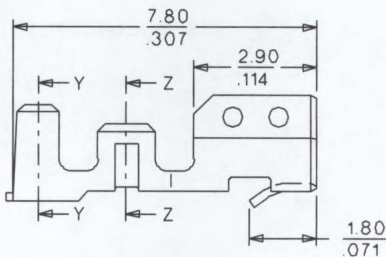
CATALOG DRAWING (FOR REFERENCE ONLY)



SECTION Z-Z



SECTION Y-Y



ORDERING INFORMATION

Order No.	Contact
57915-8001	Pre-Tinned Phosphor Bronze
57915-9002	Pre-Tinned Brass

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 15 circuits
- Locking windows secure terminal to housing
- Protective ribs on each side of latch

Reference Information

Product Specification: PS-35572-001

Packaging: Bag

Mates With: 35312 header and 35184 plug

Use With: 57915

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 500 MΩ min.

Mechanical

Contact Insertion Force: 9.8N (2.2 lb) max.

Contact Retention to Housing: 14.7N (3.3 lb) min.

Mating Force: 81.4N (18.3 lb) max.

Unmating Force: 16.2N (3.6 lb) min.

Durability: 30 cycles

Physical

Housing: Natural PA 66, UL 94V-0

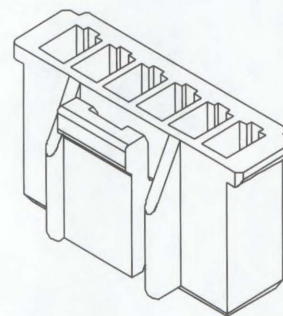
Operating Temperature: -40 to +105°C



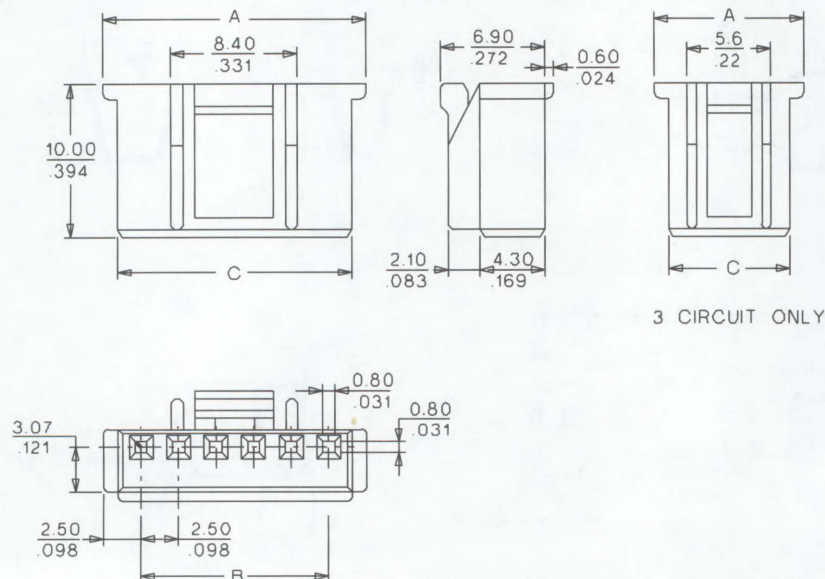
2.50mm (.098") Pitch Wire-to-Wire and Wire-to-Board Housing

35572

Positive Lock



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
3	35572-0300	10.00 (.394)	5.00 (.295)	8.10 (.319)
4	35572-0400	12.50 (.492)	7.50 (.295)	10.60 (.417)
5	35572-0500	15.00 (.591)	10.00 (.394)	13.10 (.516)
6	35572-0600	17.50 (.689)	12.50 (.492)	15.60 (.614)
7	35572-0700	20.00 (.787)	15.00 (.591)	18.10 (.713)
8	35572-0800	22.50 (.886)	17.50 (.689)	20.60 (.811)
9	35572-0900	25.00 (.984)	20.00 (.787)	23.10 (.909)
10	35572-1000	27.50 (1.083)	22.50 (.886)	25.60 (1.008)
11	35572-1100	30.00 (1.181)	25.00 (.984)	28.10 (1.106)
12	35572-1200	32.50 (1.280)	27.50 (1.083)	30.60 (1.205)
13	35572-1300	35.00 (1.378)	30.00 (1.181)	33.10 (1.303)
14	35572-1400	37.50 (1.476)	32.50 (1.280)	35.60 (1.402)
15	35572-1500	40.00 (1.575)	35.00 (1.378)	38.10 (1.500)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Low profile
- 0.64mm (.025") square wire pins
- Polarized
- Positive locking

Reference Information

Product Specification: PS-35312
 Packaging: Bag and tube
 UL File No.: E29179
 CSA File No.: LR19980A
 Mates With: 35155 and 35572 housings
 Designed In: Millimeters

Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 14.7N (3.3 lb) min.
 Durability: 30 cycles

Physical

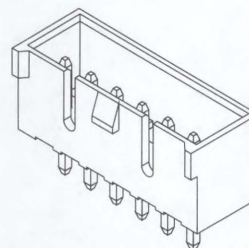
Housing: 6/6 nylon, UL 94V-0
 Contact: Brass
 Plating: Tin
 Operating Temperature: -40 to +105°C



2.50mm (.098") Pitch Wire-to-Board Header

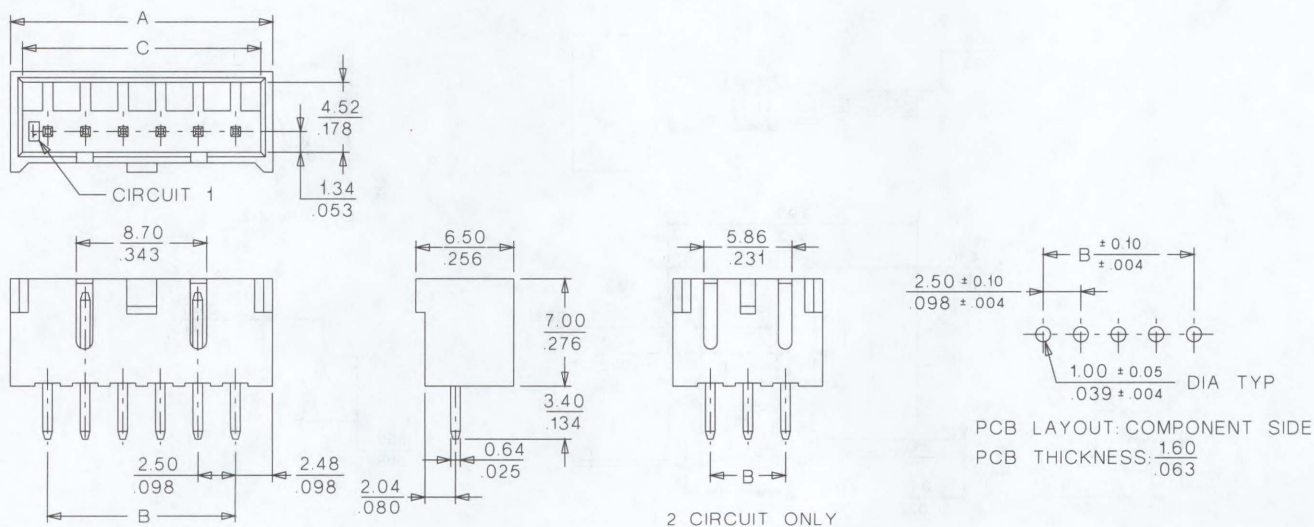
35312

Vertical Fully Shrouded



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
2	35312-0210	7.46 (.294)	2.50 (.098)	5.86 (.231)
3	35312-0310	9.96 (.392)	5.00 (.197)	8.36 (.329)
4	35312-0410	12.46 (.491)	7.50 (.295)	10.86 (.428)
5	35312-0510	14.96 (.589)	10.00 (.394)	13.36 (.526)
6	35312-0610	17.46 (.687)	12.50 (.492)	15.86 (.624)
7	35312-0710	19.96 (.786)	15.00 (.591)	18.36 (.723)
8	35312-0810	22.46 (.884)	17.50 (.689)	20.86 (.821)
9	35312-0910	24.96 (.983)	20.00 (.787)	23.36 (.920)
10	35312-1010	27.46 (1.081)	22.50 (.886)	25.86 (1.018)
11	35312-1110	29.96 (1.180)	25.00 (.984)	28.36 (1.117)
12	35312-1210	32.46 (1.278)	27.50 (1.083)	30.86 (1.215)
13	35312-1310	34.96 (1.376)	30.00 (1.181)	33.36 (1.313)
14	35312-1410	37.46 (1.475)	32.50 (1.280)	35.86 (1.412)
15	35312-1510	39.96 (1.573)	35.00 (1.378)	38.36 (1.510)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Spring-fit style terminal provides high pressure retention to PCB
- Housing lance provides secure retention to housing and protects terminal
- PCB guide ridge helps position terminal to board

Reference Information

Packaging: Reel or bag
Use With: 51035
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 4.0A

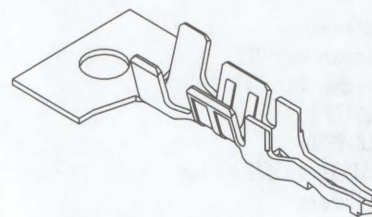
Physical

Contact: Phosphor Bronze
Plating: Tin
Wire Range: 20 to 24 AWG
0.20 to 0.50 sq. KV
0.30 to 0.50 sq. AVS
Insulation Range: 2.10mm dia. max.
Strip Length: 2.50 to 3.00mm

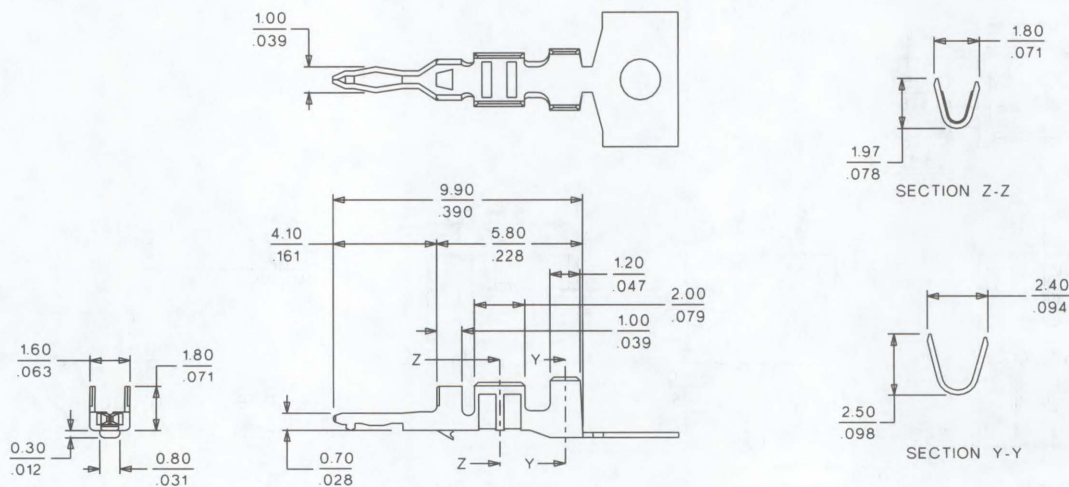


2.50mm (.098") Pitch Board-In Terminal

50097



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Terminal
50097-8000	Reel
50097-8100	Bag

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 18 circuits
- Housing lance provides secure terminal retention and protection

Reference Information

Packaging: Bag

Use With: 50097

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 4.0A

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 M Ω min.

Physical

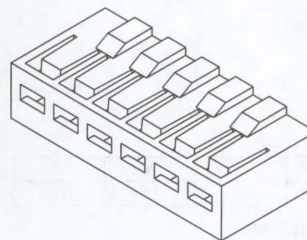
Housing: 6/6 nylon, UL 94V-0

Operating Temperature: -40 to +105°C



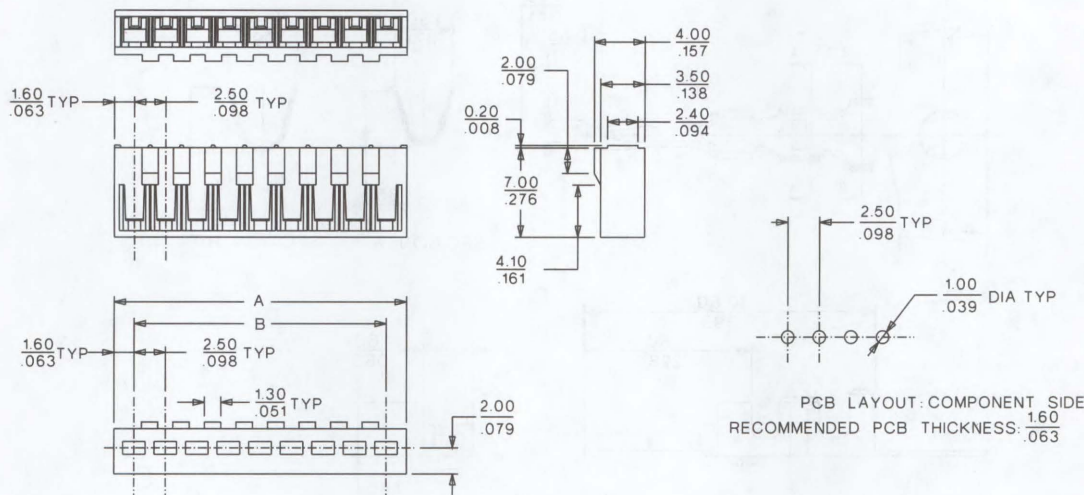
2.50mm (.098") Pitch Board-In Housing

51035



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	51035-0200	5.70 (.224)	2.50 (.098)
3	51035-0300	8.20 (.323)	5.00 (.197)
4	51035-0400	10.70 (.421)	7.50 (.295)
5	51035-0500	13.20 (.520)	10.00 (.394)
6	51035-0600	15.70 (.618)	12.50 (.492)
7	51035-0700	18.20 (.717)	15.00 (.591)
8	51035-0800	20.70 (.815)	17.50 (.689)
9	51035-0900	23.20 (.913)	20.00 (.787)
10	51035-1000	25.70 (1.012)	22.50 (.886)
11	51035-1100	28.20 (1.110)	25.00 (.984)
12	51035-1200	30.70 (1.209)	27.50 (1.083)
13	51035-1300	33.20 (1.307)	30.00 (1.181)
14	51035-1400	35.70 (1.406)	32.50 (1.280)
15	51035-1500	38.20 (1.504)	35.00 (1.378)
16	51035-1600	40.70 (1.602)	37.50 (1.476)
17	51035-1700	43.20 (1.701)	40.00 (1.575)
18	51035-1800	45.70 (1.799)	42.50 (1.673)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Locking tab secures terminal to housing

Reference Information

Product Specification: PS-35164

Packaging: Reel

Use With: 35164

Designed In: Millimeters

Electrical

Voltage: 250V

Current:

AWG	22	24	26	28
Amperes	3.0	2.5	1.5	1.0

Contact Resistance: 5mΩ max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 14.7N (3.3 lb) max.

Contact Retention to Housing: 14.7N (3.3 lb) min.

Wire Pull-Out Force: 22 AWG—39.2N (8.8 lb) min.

Insertion Force to PCB: 14.7N (3.3 lb) max.

Physical

Contact: Brass

Plating: Contact Area—Tin

Solder Tail Area—Tin

Underplating—Copper

Insulation Diameter: 1.90mm (.075") max.

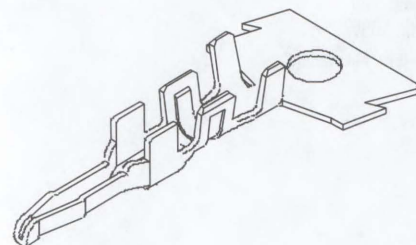
Wire Gauge: 22 to 28 AWG

PCB Thickness: 1.60mm (.063")



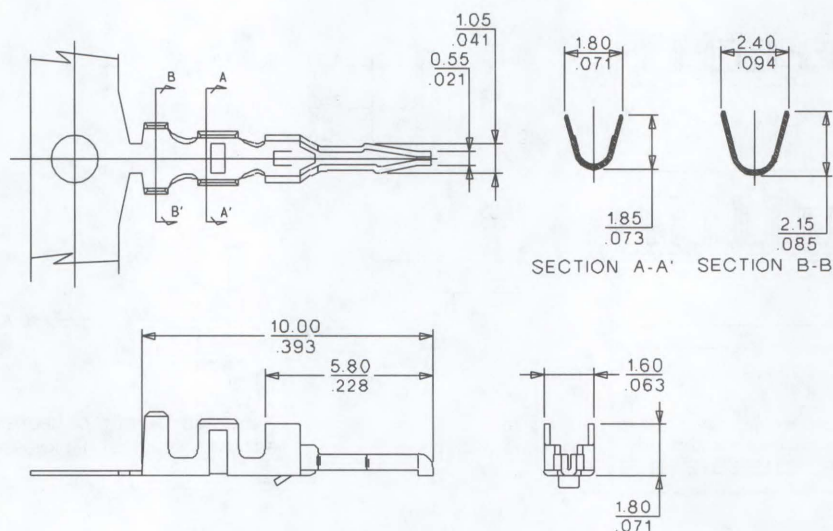
2.50mm (.098") Pitch Board-In Terminal

35047



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Plating
35047-9802	Pre-Tin
35047-9810	Post-Tin

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows secure terminal to housing

Reference Information

Product Specification: PS-35164

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Use With: 35047

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 5mΩ max

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 14.7N (3.3 lb) max.

Contact Retention to Housing: 14.7N (3.3 lb) min.

Physical

Housing: 6/6 nylon, UL 94V-0

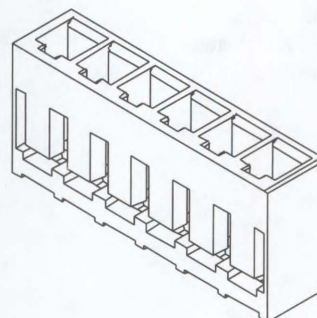
Operating Temperature: -40 to +105°C



2.50mm (.098") Pitch Board-In Housing

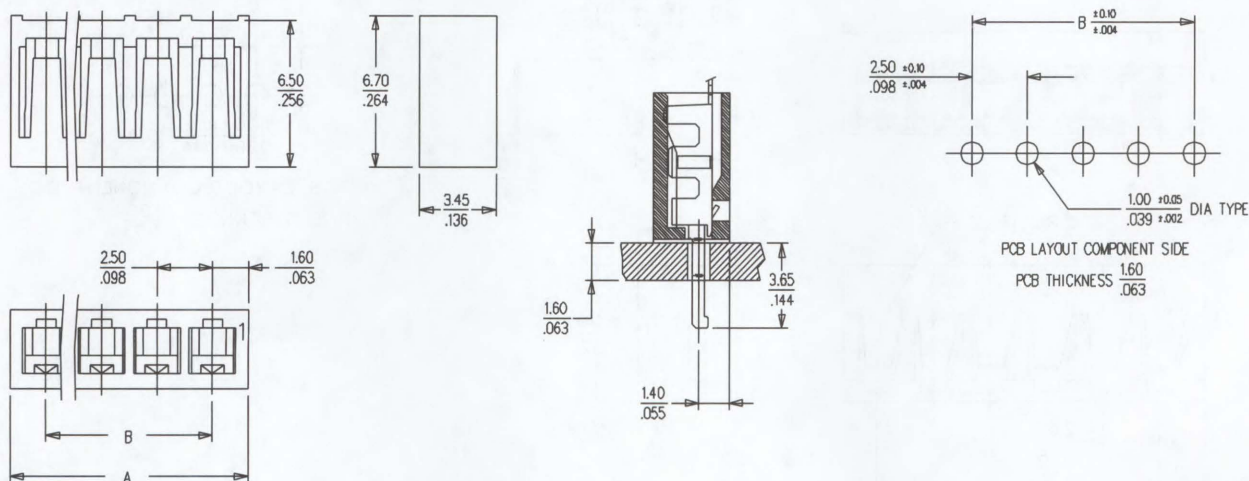
35164

Vertical



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Circuits	Order No.		Dimension	
	Natural Color	Red Color	A	B
2	35164-0200	35164-0202	5.7 (.224)	2.5 (.197)
3	35164-0300	35164-0302	8.2 (.323)	5.0 (.295)
4	35164-0400	35164-0402	10.7 (.421)	7.5 (.394)
5	35164-0500	35164-0502	13.2 (.520)	10.0 (.492)
6	35164-0600	35164-0602	15.7 (.618)	12.5 (.591)
7	35164-0700	35164-0702	18.2 (.717)	15.0 (.689)
8	35164-0800	35164-0802	20.7 (.815)	17.5 (.787)
9	35164-0900	35164-0902	23.2 (.913)	20.0 (.787)
10	35164-1000	35164-1002	25.7 (1.012)	22.5 (.886)
11	35164-1100	35164-1102	28.2 (1.110)	25.0 (.984)
12	35164-1200	35164-1202	30.7 (1.209)	27.5 (1.083)
13	35164-1300	35164-1302	34.0 (1.307)	30.0 (1.181)
14	35164-1400	35164-1402	35.7 (1.406)	32.5 (1.280)
15	35164-1500	35164-1502	38.2 (1.504)	35.0 (1.378)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 16 circuits
- Low profile (2.95mm)
- Terminal locking window
- Solders directly to PCB

Reference Information

Product Specification: PS-35022
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Use With: 35021 and 35044 terminal
 Designed In: Millimeters

Electrical

Voltage: 125V
 Current: 3.0A
 Contact Resistance: 5mΩ max.
 Dielectric Withstanding Voltage: 1000V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 9.81N (2.2 lb) max.
 Contact Retention to Housing: 9.81N (2.2 lb) min.
 Insertion Force to PCB: 9.81N (2.2 lb)

Physical

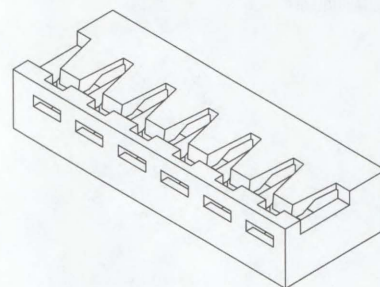
Housing: 6/6 nylon, UL 94V-0
 Operating Temperature: -40 to +105°C



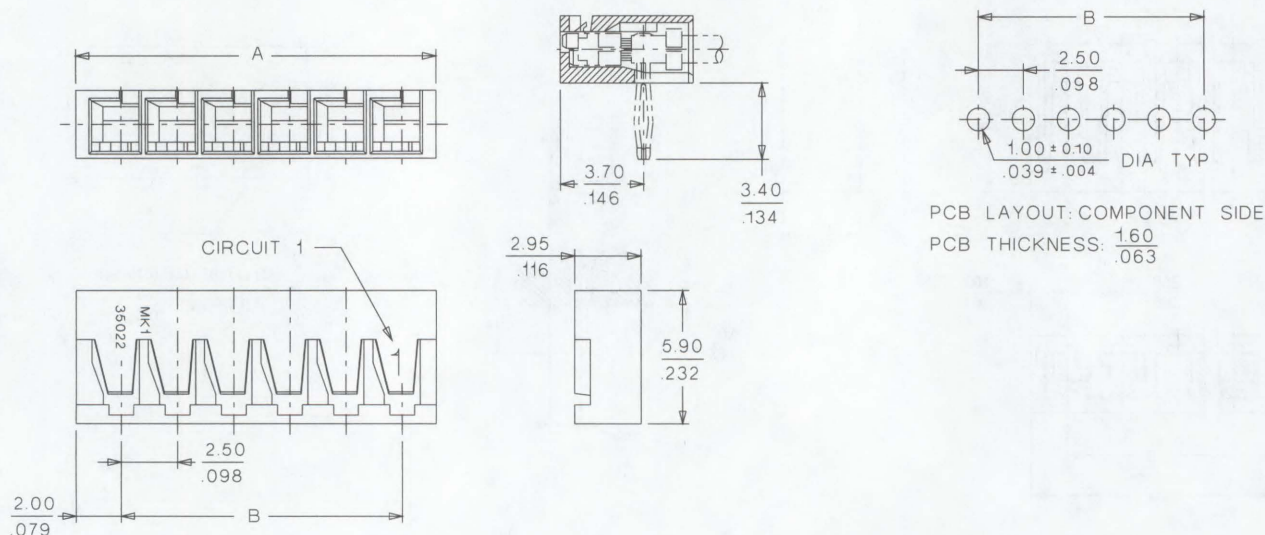
2.50mm (.098") Pitch Board-In Connector Housing

35022

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	35022-0002	6.00 (.236)	2.50 (.098)
3	35022-0003	8.50 (.335)	5.00 (.197)
4	35022-0004	11.00 (.433)	7.50 (.295)
5	35022-0005	13.50 (.531)	10.00 (.394)
6	35022-0006	16.00 (.630)	12.50 (.492)
7	35022-0007	18.50 (.728)	15.00 (.591)
8	35022-0008	21.00 (.827)	17.50 (.689)
9	35022-0009	23.50 (.925)	20.00 (.787)
10	35022-0010	26.00 (1.024)	22.50 (.886)
11	35022-0011	28.00 (1.122)	25.00 (.984)
12	35022-0012	31.00 (1.220)	27.50 (1.083)
13	35022-0013	33.50 (1.319)	30.00 (1.181)
14	35022-0014	36.00 (1.417)	32.50 (1.280)
15	35022-0015	38.50 (1.516)	35.00 (1.378)
16	35022-0016	41.00 (1.614)	37.50 (1.476)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Solders directly to PCB
- In-line IDT termination
- Integral crimped strain relief
- Low profile, eliminates headers
- Connectors supplied on terminal carrier strip for application tooling

Reference Information

Packaging: Strip
UL File No.: E29179
CSA File No.: LR19980
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC
Insulation Resistance: 1000 MΩ min.

Mechanical

Wire Pull-Out Force: See SMES 42219-0002
Insertion Force to PCB: 1kg max.

Physical

Housing: Polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin/Lead
Operating Temperature: 0 to +75°C
Wire Accommodation: 24 AWG solid or stranded with topcoat or 26 AWG stranded with topcoat



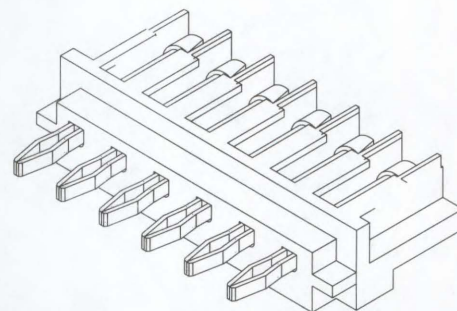
2.50mm (.098") Pitch

SPOX™

**Wire-to-Board
Connector**

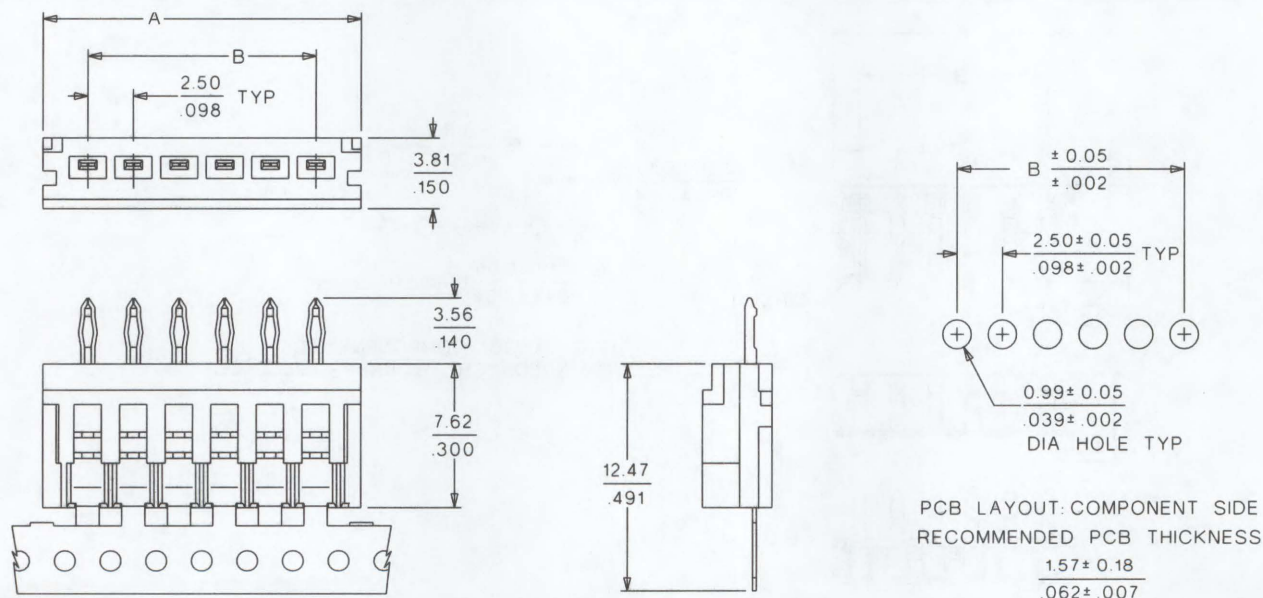
42254

**IDT
Board-In**



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 22-43-2020	7.40 (.291)	2.50 (.098)
3	• 22-43-2030	9.90 (.390)	5.00 (.197)
4	• 22-43-2040	12.40 (.488)	7.50 (.295)
5	• 22-43-2050	14.90 (.587)	10.00 (.394)
6	• 22-43-2060	17.40 (.685)	12.50 (.492)
7	• 22-43-2070	19.90 (.783)	15.00 (.591)
8	• 22-43-2080	22.40 (.882)	17.50 (.689)
9	• 22-43-2090	24.90 (.980)	20.00 (.787)
10	• 22-43-2100	27.40 (1.079)	22.50 (.886)
11	• 22-43-2110	29.90 (1.117)	25.00 (.984)
12	• 22-43-2120	32.40 (1.276)	27.50 (1.082)
13	• 22-43-2130	34.90 (1.374)	30.00 (1.181)
14	• 22-43-2140	37.40 (1.472)	32.50 (1.279)
15	• 22-43-2150	39.90 (1.571)	35.00 (1.378)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Friction lock provides secure retention
- Guide feature facilitates mating
- Kinked tails provide additional PCB retention

Reference Information

Packaging: Tray
Mates With: 53291
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 2.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

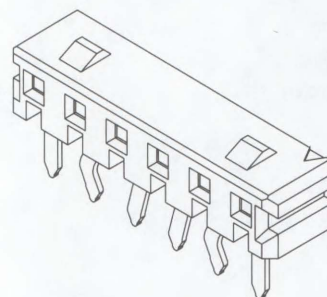
Housing: Glass-filled PBTP, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



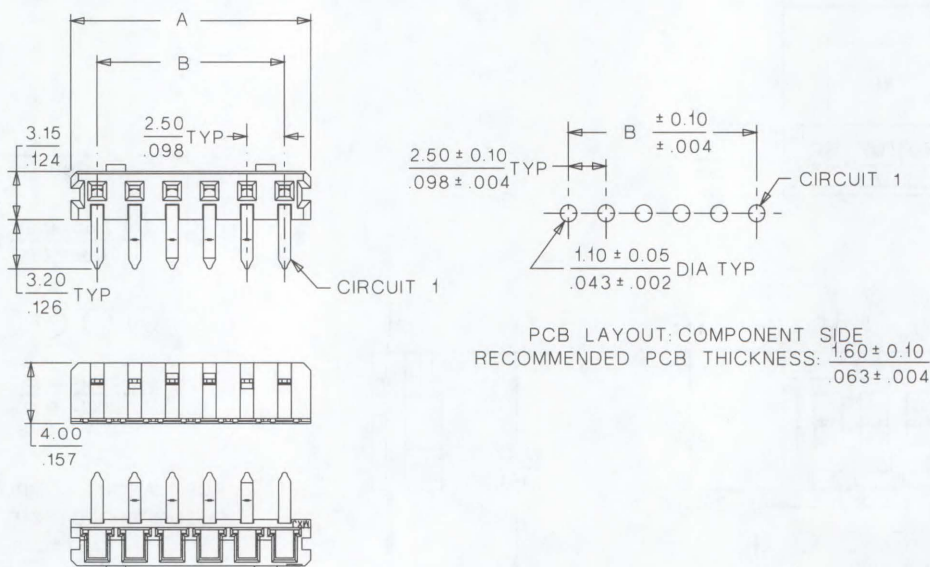
2.50mm (.098") Pitch Board-to-Board Receptacle

52419

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	52419-0310	8.50 (.334)	5.00 (.196)
4	52419-0410	11.00 (.433)	7.50 (.295)
5	52419-0510	13.50 (.531)	10.00 (.393)
6	52419-0610	16.00 (.629)	12.50 (.492)
7	52419-0710	18.50 (.728)	15.00 (.590)
8	52419-0810	21.00 (.826)	17.50 (.688)
9	52419-0910	23.50 (.925)	20.00 (.787)
10	52419-1010	26.00 (1.023)	22.50 (.885)
11	52419-1110	28.50 (1.122)	25.00 (.984)
12	52419-1210	31.00 (1.220)	27.50 (1.082)
13	52419-1310	33.50 (1.318)	30.00 (1.181)
14	52419-1410	36.00 (1.417)	32.50 (1.279)
15	52419-1510	38.50 (1.515)	35.00 (1.377)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Friction lock provides secure retention
- Guide feature facilitates mating

Reference Information

Packaging: Tube
Mates With: 52419
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 2.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

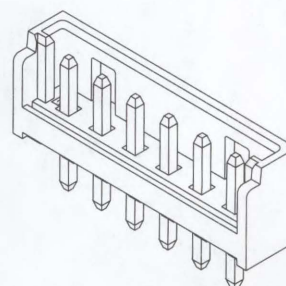
Housing: PBTP, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -40 to +105°C



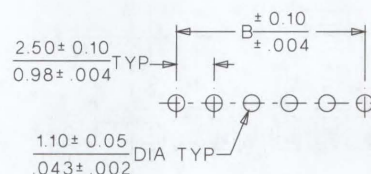
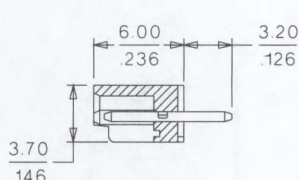
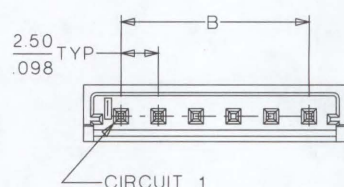
2.50mm (.098") Pitch Board-to-Board Header

53291

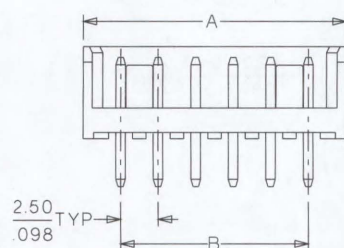
Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT : COMPONENT SIDE
RECOMMENDED PCB THICKNESS: $\frac{1.60 \pm 0.10}{.063 \pm .004}$



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	53291-0391	10.00 (.393)	5.00 (.196)
4	53291-0491	12.50 (.492)	7.50 (.295)
5	53291-0591	15.00 (.590)	10.00 (.393)
6	53291-0691	17.50 (.688)	12.50 (.492)
7	53291-0791	20.00 (.787)	15.00 (.590)
8	53291-0891	22.50 (.865)	17.50 (.688)
9	53291-0991	25.00 (.984)	20.00 (.787)
10	53291-1091	27.50 (1.082)	22.50 (.865)
11	53291-1191	30.00 (1.181)	25.00 (.984)
12	53291-1291	32.50 (1.279)	27.50 (1.070)
13	53291-1391	35.00 (1.377)	30.00 (1.181)
14	53291-1491	37.50 (1.476)	32.50 (1.279)
15	53291-1591	40.00 (1.574)	35.00 (1.377)

Note: Kinked version and bag packaging available, contact Inside Sales for details

B
2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 15 circuits

Reference Information

Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5245-NA
Mated Height: 12.00mm (.472")
Mated Width: 9.10mm (.358")
Designed In: Millimeters

Electrical

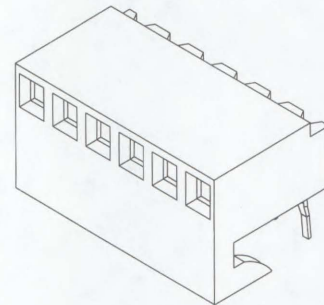
Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

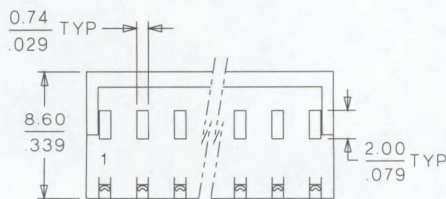
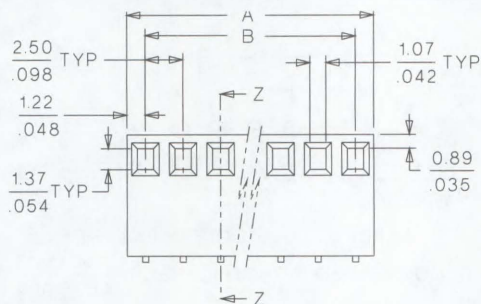
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C

molex® 2.50mm (.098") Pitch Board-to-Board Receptacle

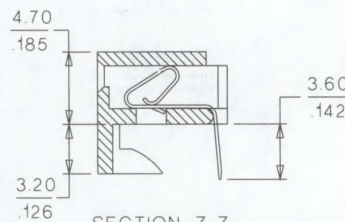
5244-NAHPB Single Row



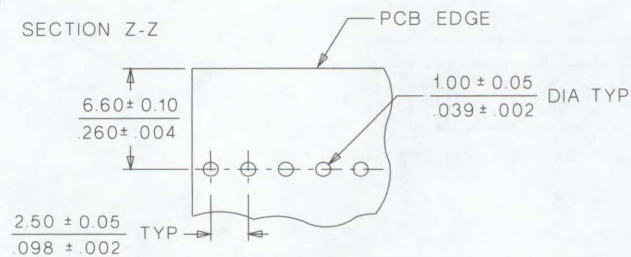
CATALOG DRAWING (FOR REFERENCE ONLY)



CIRCUIT 1



SECTION Z-Z



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS : 1.60 ± 0.10
.063 ± .004

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	22-15-3032	7.44 (.293)	5.00 (.196)
4	22-15-3042	9.94 (.391)	7.50 (.295)
5	22-15-3052	12.44 (.490)	10.00 (.393)
6	22-15-3062	14.94 (.588)	12.50 (.492)
7	22-15-3072	17.44 (.687)	15.00 (.590)
8	22-15-3082	19.94 (.785)	17.50 (.688)
9	22-15-3092	22.44 (.883)	20.00 (.787)
10	22-15-3102	24.94 (.982)	22.50 (.885)
11	22-15-3112	27.44 (1.080)	25.00 (.984)
12	22-15-3122	29.94 (1.179)	27.50 (1.082)
13	22-15-3132	32.44 (1.277)	30.00 (1.181)
14	22-15-3142	34.94 (1.376)	32.50 (1.279)
15	22-15-3152	37.44 (1.474)	35.00 (1.377)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 15 circuits

Reference Information

Packaging: Bulk

UL File No.: E29179

CSA File No.: LR19980

Mates With: 5244-NAHPB

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

Contact: Brass

Plating: Tin

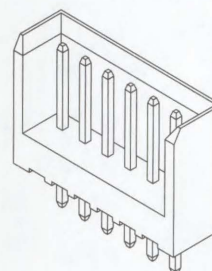
Operating Temperature: -40 to +105°C



2.50mm (.098") Pitch Board-to-Board Backwall Header

5245-NA

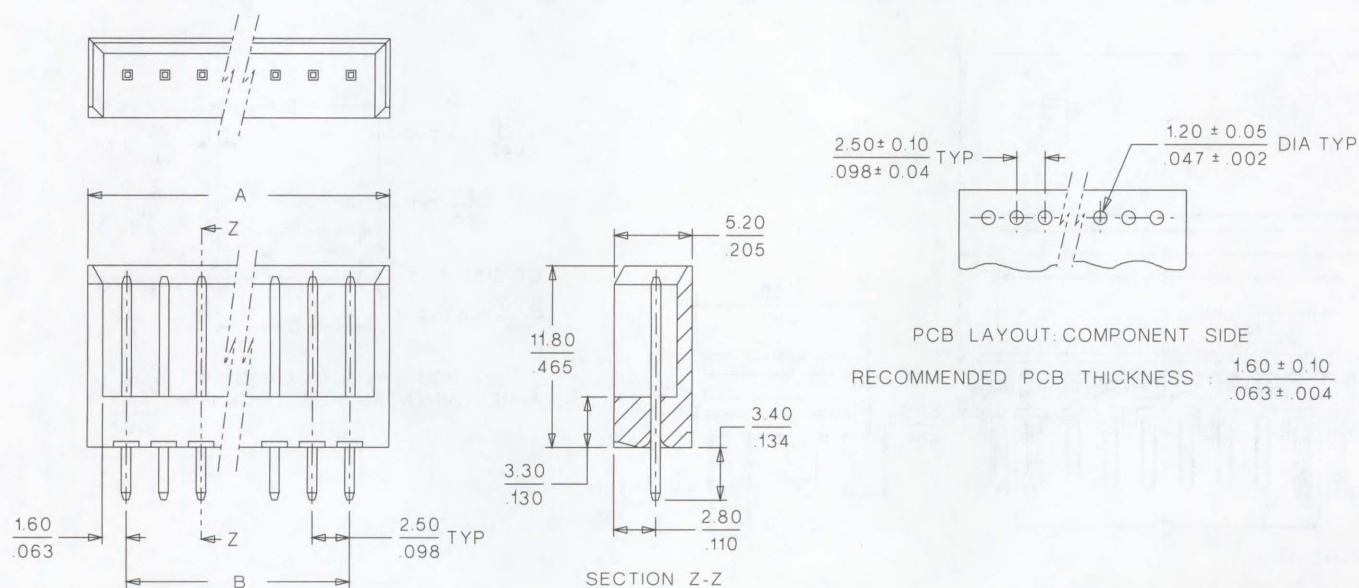
Single Row



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	22-03-5034	10.20 (.401)	5.00 (.196)
4	22-03-5044	12.70 (.499)	7.50 (.295)
5	22-03-5054	15.20 (.598)	10.00 (.393)
6	22-03-5064	17.70 (.696)	12.50 (.492)
7	22-03-5074	20.20 (.795)	15.00 (.590)
8	22-03-5084	22.70 (.893)	17.50 (.688)
9	22-03-5094	25.20 (.992)	20.00 (.787)
10	22-03-5104	27.70 (1.090)	22.50 (.885)
11	22-03-5114	30.20 (1.188)	25.00 (.984)
12	22-03-5124	32.70 (1.287)	27.50 (1.082)
13	22-03-5134	35.20 (1.385)	30.00 (1.181)
14	22-03-5144	37.70 (1.484)	32.50 (1.279)
15	22-03-5154	40.20 (1.582)	35.00 (1.377)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 10 to 20 circuits
- 2 friction locks
- Fork-style PCB peg with friction lock

Reference Information

Mates With: 53421 header
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A max.
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

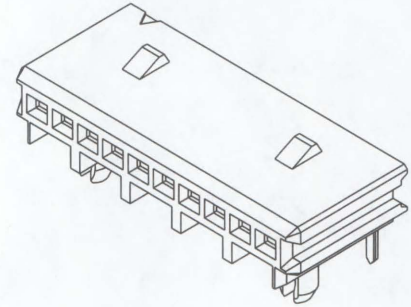
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



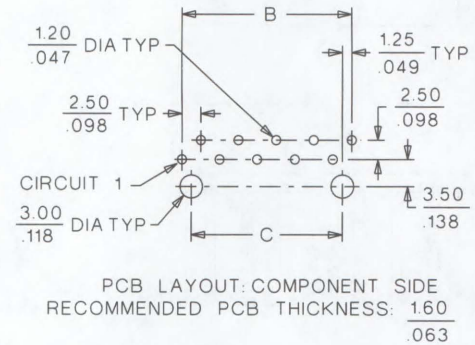
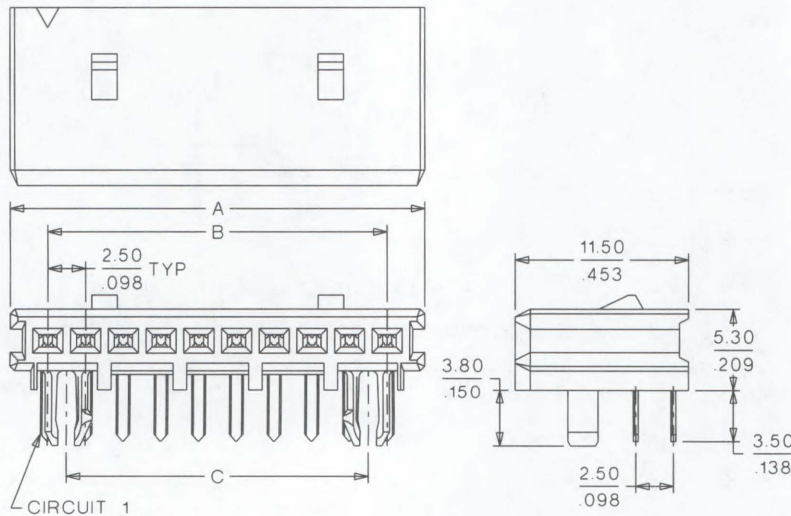
2.50mm (.098") Pitch Board-to-Board Receptacle

52668

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
10	52668-1017	27.50 (1.083)	22.50 (.886)	20.00 (.787)
11	52668-1117	30.00 (1.181)	25.00 (.984)	22.50 (.886)
12	52668-1217	32.50 (1.280)	27.50 (1.083)	25.00 (.984)
13	52668-1317	35.00 (1.378)	30.00 (1.181)	27.50 (1.083)
14	52668-1417	37.50 (1.476)	32.50 (1.280)	30.00 (1.181)
15	52668-1517	40.00 (1.575)	35.00 (1.378)	32.50 (1.280)
16	52668-1617	42.50 (1.673)	37.50 (1.476)	35.00 (1.378)
17	52668-1717	45.00 (1.772)	40.00 (1.575)	37.50 (1.476)
18	52668-1817	47.50 (1.870)	42.50 (1.673)	40.00 (1.575)
19	52668-1917	50.00 (1.969)	45.00 (1.772)	42.50 (1.673)
20	52668-2017	52.50 (2.067)	47.50 (1.870)	45.00 (1.772)

Features and Benefits

- ### Reference Information

Electrical

Voltage: 250V
Current: 3.0A max.
Contact Resistance: 20m Ω max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 M Ω min.

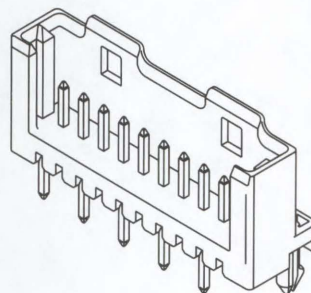
Physical

Housing: 6/6 nylon, UL 94V-0
Contact: Brass, 0.65mm (.026") square
Plating: Tin
Operating Temperature: -40 to +105°C

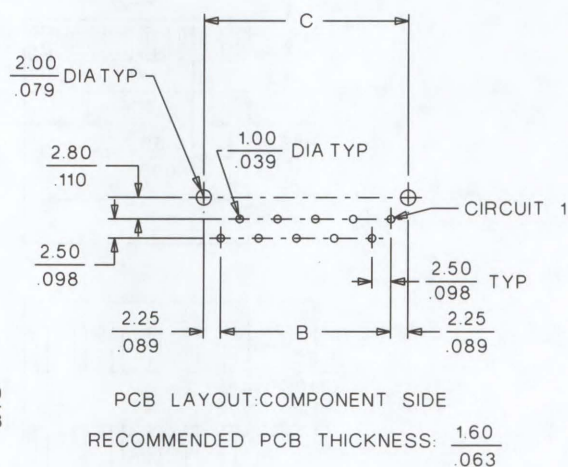


53421

Vertical



2.00 to 2.50mm (.079 to .098") Pitch



Circuits	Order No.	Dimension		
		A	B	C
10	53421-1017	30.00 (1.181)	22.50 (.886)	27.00 (1.063)
11	53421-1117	32.50 (1.280)	25.00 (.984)	29.50 (1.161)
12	53421-1217	35.00 (1.378)	27.50 (1.083)	32.00 (1.260)
13	53421-1317	37.50 (1.476)	30.00 (1.181)	34.50 (1.358)
14	53421-1417	40.00 (1.575)	32.50 (1.280)	37.00 (1.457)
15	53421-1517	42.50 (1.673)	35.00 (1.378)	39.50 (1.555)
16	53421-1617	45.00 (1.772)	37.50 (1.476)	42.00 (1.654)
17	53421-1717	47.50 (1.870)	40.00 (1.575)	44.50 (1.752)
18	53421-1817	50.00 (1.969)	42.50 (1.673)	47.00 (1.850)
19	53421-1917	52.50 (2.067)	45.00 (1.772)	49.50 (1.949)
20	53421-2017	55.00 (2.165)	47.50 (1.870)	52.00 (2.047)

**molex® 2.50mm (.098") Pitch
Board-to-Board
Receptacle**

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 15 circuits

Reference Information

Packaging: Tray

Mates With: 3022-NA

Mated Height: 11.90mm (.469")

Mated Width: 4.70mm (.185")

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0

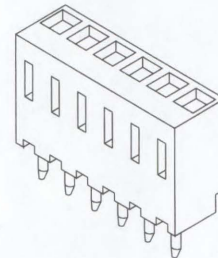
Contact: Phosphor Bronze

Plating: Tin

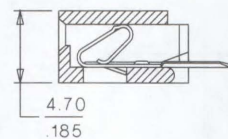
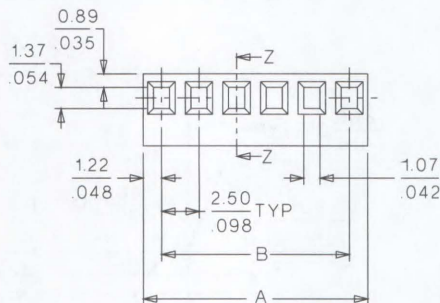
Operating Temperature: -40 to +105°C

5224-NCHPB

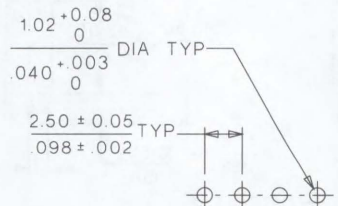
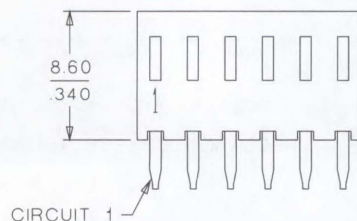
Single Row



CATALOG DRAWING (FOR REFERENCE ONLY)



SECTION Z-Z



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: $\frac{1.60 \pm 0.10}{.063 \pm .004}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	22-02-3034	7.44 (.293)	5.00 (.196)
4	22-02-3044	9.94 (.391)	7.50 (.295)
5	22-02-3054	12.44 (.490)	10.00 (.393)
6	22-02-3064	14.94 (.588)	12.50 (.492)
7	22-02-3074	17.44 (.687)	15.00 (.590)
8	22-02-3084	19.94 (.785)	17.50 (.688)
9	22-02-3094	22.44 (.883)	20.00 (.787)
10	22-02-3104	24.94 (.982)	22.50 (.885)
11	22-02-3114	27.44 (1.080)	25.00 (.984)
12	22-02-3124	29.94 (1.179)	27.50 (1.082)
13	22-02-3134	32.44 (1.277)	30.00 (1.181)
14	22-02-3144	34.94 (1.376)	32.50 (1.279)
15	22-02-3154	37.44 (1.474)	35.00 (1.377)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 15 circuits

Reference Information

Packaging: Tray
UL File No.: E29179
Mates With: 3022-NA
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

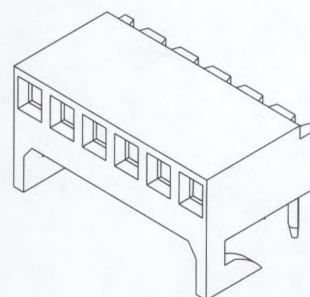
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



2.50mm (.098") Pitch Board-to-Board Receptacle

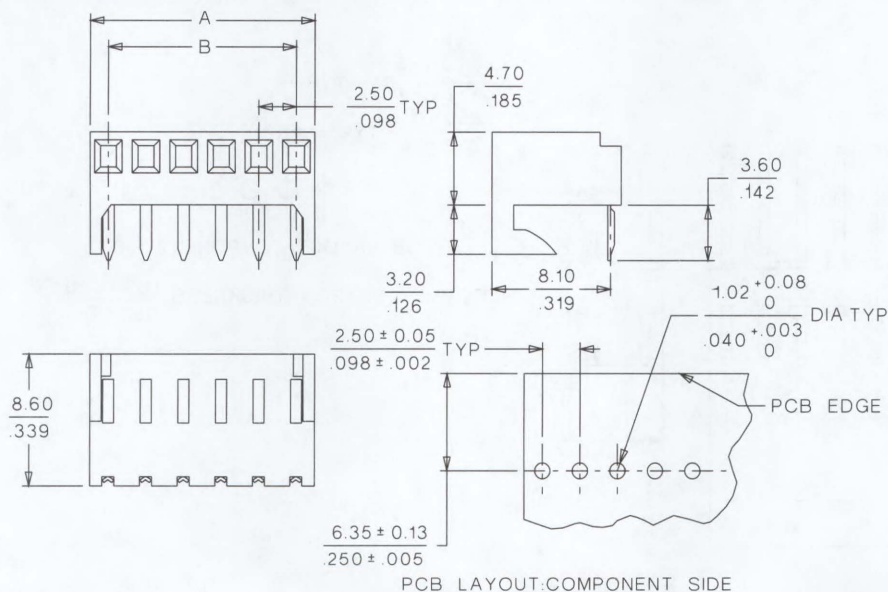
3024-NAHPB

**Single Row
Right Angle**



B
2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	22-15-1032	7.44 (.293)	5.00 (.196)
4	22-15-1042	9.94 (.391)	7.50 (.295)
5	22-15-1052	12.44 (.490)	10.00 (.393)
6	22-15-1062	14.94 (.588)	12.50 (.492)
7	22-15-1072	17.44 (.687)	15.00 (.590)
8	22-15-1082	19.94 (.785)	17.50 (.688)
9	22-15-1092	22.44 (.883)	20.00 (.787)
10	22-15-1102	24.94 (.982)	22.50 (.885)
11	22-15-1112	27.44 (1.080)	25.00 (.984)
12	22-15-1122	29.94 (1.179)	27.50 (1.082)
13	22-15-1132	32.44 (1.277)	30.00 (1.181)
14	22-15-1142	34.94 (1.376)	32.50 (1.279)
15	22-15-1152	37.44 (1.474)	35.00 (1.377)

B
2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 15 circuits

Reference Information

Packaging: Bulk
UL File No.: E29179
CSA File No.: LR19980
Mates With: 3024-NAHPB and 5224-NCHPB
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

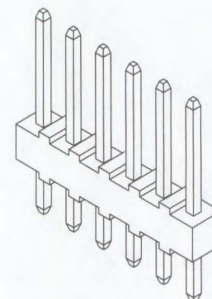
Physical

Housing: 6/6 nylon, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -40 to +105°C

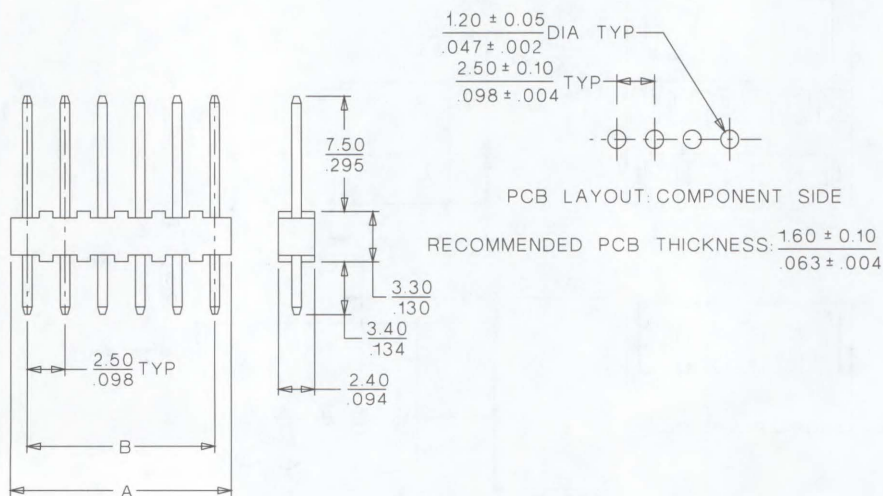


2.50mm (.098") Pitch Board-to-Board Header

3022-NA Single Row



CATALOG DRAWING (FOR REFERENCE ONLY)

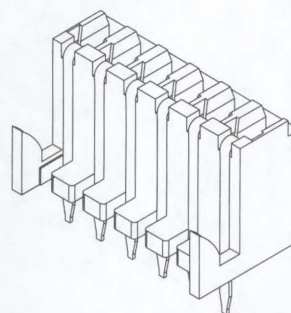


ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	22-03-1031	7.20 (.283)	5.00 (.196)
4	22-03-1041	9.70 (.382)	7.50 (.295)
5	22-03-1051	12.20 (.480)	10.00 (.393)
6	22-03-1061	14.70 (.579)	12.50 (.492)
7	22-03-1071	17.20 (.677)	15.00 (.590)
8	22-03-1081	19.70 (.776)	17.50 (.688)
9	22-03-1091	22.20 (.874)	20.00 (.787)
10	22-03-1101	24.70 (.972)	22.50 (.885)
11	22-03-1111	27.20 (1.071)	25.00 (.984)
12	22-03-1121	29.70 (1.169)	27.50 (1.082)
13	22-03-1131	32.20 (1.268)	30.00 (1.181)
14	22-03-1141	34.70 (1.366)	32.50 (1.279)
15	22-03-1151	37.20 (1.465)	35.00 (1.377)

Designed In: Millimeters

Operating Temperature: -40 to +105°C



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: $\frac{1.60 \pm 0.10}{.063 \pm .004}$

Top View Dimensions:

- Pin Pitch: $\frac{2.50 \pm 0.05}{.098}$ TYP
- Pin Diameter: $\frac{2.00 \pm 0.10}{.079 \pm .004}$ DIA TYP
- Pin Spacing (Center-to-Center): $\frac{3.70 \pm 0.10}{.146 \pm .004}$
- Pin Diameter (Inner): $\frac{1.00 +0.10}{-.05}$ DIA TYP
- Pin Diameter (Outer): $\frac{.039 +.004}{-.002}$ DIA TYP
- Overall Width: B
- Overall Length: A

Side View Dimensions:

- Pin Height: $\frac{8.60}{.339}$
- Pin Thickness: $\frac{3.60}{.142}$
- Pin Width: $\frac{3.20}{.126}$
- Pin Spacing (Center-to-Center): $\frac{4.70}{.185}$

Circuits	Order No.	Dimension	
		A	B
3	10-07-2035	7.44 (.293)	5.00 (.196)
4	10-07-2045	9.94 (.391)	7.50 (.295)
5	10-07-2055	12.44 (.490)	10.00 (.393)
6	10-07-2065	14.94 (.588)	12.50 (.492)
7	10-07-2075	17.44 (.687)	15.00 (.590)
8	10-07-2085	19.94 (.785)	17.50 (.688)
9	10-07-2095	22.44 (.883)	20.00 (.787)
10	10-07-2105	24.94 (.982)	22.50 (.885)
11	10-07-2115	27.44 (1.080)	25.00 (.984)
12	10-07-2125	29.94 (1.179)	27.50 (1.082)
13	10-07-2135	32.44 (1.277)	30.00 (1.181)
14	10-07-2145	34.94 (1.376)	32.50 (1.279)
15	10-07-2155	37.44 (1.474)	35.00 (1.377)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 15 circuits

Reference Information

Packaging: Bulk
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5124-NBHPB
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

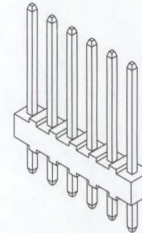
Housing: 6/6 nylon, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -40 to +105°C



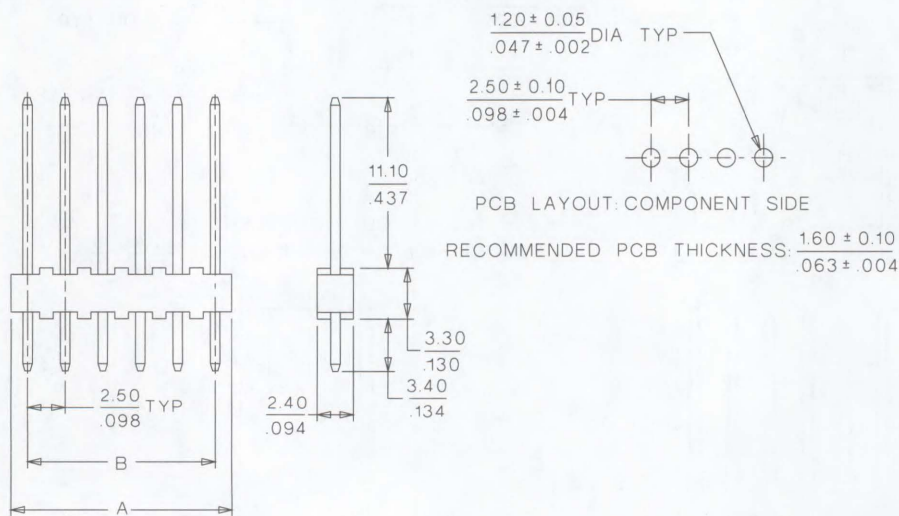
2.50mm (.098") Pitch Board-to-Board Header

3022-NB

Single Row



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	22-03-1032	7.20 (.283)	5.00 (.196)
4	22-03-1042	9.70 (.382)	7.50 (.295)
5	22-03-1052	12.20 (.480)	10.00 (.393)
6	22-03-1062	14.70 (.579)	12.50 (.492)
7	22-03-1072	17.20 (.677)	15.00 (.590)
8	22-03-1082	19.70 (.776)	17.50 (.688)
9	22-03-1092	22.20 (.874)	20.00 (.787)
10	22-03-1102	24.70 (.972)	22.50 (.885)
11	22-03-1112	27.20 (1.071)	25.00 (.984)
12	22-03-1122	29.70 (1.169)	27.50 (1.082)
13	22-03-1132	32.20 (1.268)	30.00 (1.181)
14	22-03-1142	34.70 (1.366)	32.50 (1.279)
15	22-03-1152	37.20 (1.465)	35.00 (1.377)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- 0.64 mm (.025") square wire pins
- Stackable side-to-side and end-to-end

Reference Information

Packaging: Bulk
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5051 and 7534
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC
Insulation Resistance: 1000 MΩ min.

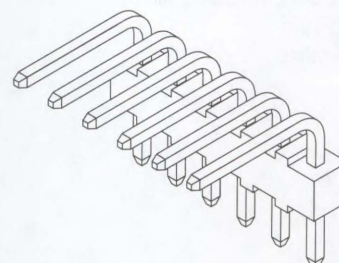
Physical

Housing: 6/6 nylon, UL 94V-0
Contact: Brass
Plating: Tin
Operating Temperature: -40 to +105°C

molex® 2.50mm (.098") Pitch
Header

3094-NA

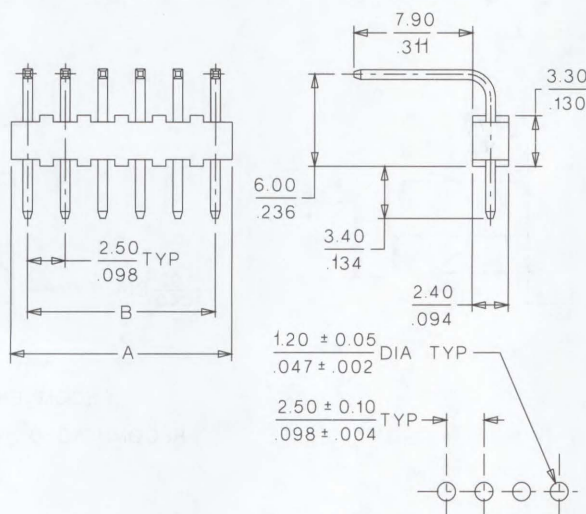
**Right Angle
Square Pin**



2.00 to 2.50mm (.079 to .098") Pitch

B

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: 1.60 ± 0.10
0.63 ± .004

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
2	22-05-1021	22-12-1021	4.90 (.192)	2.50 (.098)
3	22-05-1031	22-12-1031	7.20 (.284)	5.00 (.196)
4	22-05-1041	22-12-1041	9.70 (.382)	7.50 (.295)
5	22-05-1051	22-12-1051	12.20 (.480)	10.00 (.393)
6	22-05-1061	22-12-1061	14.70 (.578)	12.50 (.492)
7	22-05-1071	22-12-1071	17.20 (.677)	15.00 (.590)
8	22-05-1081	22-12-1081	19.70 (.776)	17.50 (.688)
9	22-05-1091	22-12-1091	22.20 (.874)	20.00 (.787)
10	22-05-1101	22-12-1101	24.70 (.972)	22.50 (.885)
11	22-05-1111	22-12-1111	27.20 (1.071)	25.00 (.984)

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
12	22-05-1121	22-12-1121	29.70 (1.169)	27.50 (1.082)
13	22-05-1131	22-12-1131	32.20 (1.268)	30.00 (1.181)
14	22-05-1141	22-12-1141	34.70 (1.367)	32.50 (1.279)
15	22-05-1151	22-12-1151	37.20 (1.462)	35.00 (1.377)
16	22-05-1161	22-12-1161	39.70 (1.563)	37.50 (1.476)
17	22-05-1171	22-12-1171	42.20 (1.662)	40.00 (1.574)
18	22-05-1181	22-12-1181	44.70 (1.760)	42.50 (1.673)
19	22-05-1191	22-12-1191	47.20 (1.858)	45.00 (1.771)
20	22-05-1201	22-12-1201	49.70 (1.957)	47.50 (1.870)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- PC board locking hooks and standoffs

Reference Information

Product Specification: PS-10-07

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 3022, 3094, 3202, 6494 and

0.64mm (.025") pins

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 500K MΩ min.

Mechanical

Mating Force: 199g max.

Unmating Force: 57g min.

Normal Force: 300g

Durability: 50 cycles Gold and 25 cycles Tin

Physical

Housing: White nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: 1.00μ (40μ") Tin/Lead and 2.00μ (80μ") Copper
min. or 0.50μ (20μ") Gold and 0.75μ (30μ") Nickel min.

Operating Temperature: 0 to +75°C



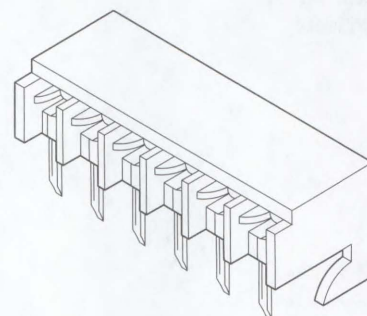
2.50mm (.098") Pitch

KK®

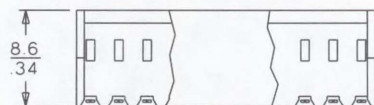
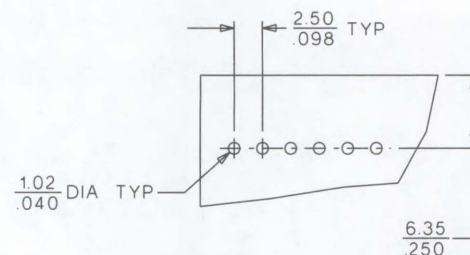
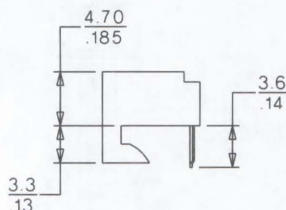
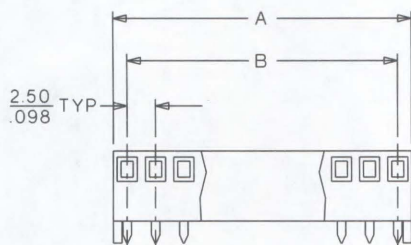
PC Board Connector

7534

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



RECOMMENDED PCB LAYOUT

RECOMMENDED PCB THICKNESS: 1.58
.062

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
2	22-02-1024	22-16-1023	4.94 (.194)	2.50 (.098)
3	22-02-1034	22-16-1033	7.44 (.293)	5.00 (.197)
4	22-02-1044	22-16-1043	9.94 (.392)	7.50 (.295)
5	22-02-1054	22-16-1053	12.44 (.490)	10.00 (.394)
6	22-02-1064	22-16-1063	14.94 (.589)	12.50 (.492)
7	22-02-1074	22-16-1073	17.44 (.687)	15.00 (.591)
8	22-02-1084	22-16-1083	19.94 (.785)	17.50 (.689)
9	22-02-1094	22-16-1093	22.44 (.884)	20.00 (.787)
10	22-02-1104	22-16-1103	24.94 (.982)	22.50 (.886)
11	22-02-1114	22-16-1113	27.44 (1.081)	25.00 (.984)

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
12	22-02-1124	22-16-1123	29.94 (1.179)	27.50 (1.083)
13	22-02-1134	22-16-1133	32.44 (1.278)	30.00 (1.180)
14	22-02-1144	22-16-1143	34.94 (1.376)	32.50 (1.280)
15	22-02-1154	22-16-1153	37.44 (1.475)	35.00 (1.378)
16	22-02-1164	22-16-1163	39.94 (1.572)	37.50 (1.477)
17	22-02-1174	22-16-1173	42.44 (1.672)	40.00 (1.575)
18	22-02-1184	22-16-1183	44.94 (1.769)	42.50 (1.674)
19	22-02-1194	22-16-1193	47.44 (1.860)	45.00 (1.772)
20	22-02-1204	22-16-1203	49.94 (1.966)	47.50 (1.870)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- PC board locking hooks and standoffs

Reference Information

Product Specification: PS-10-07

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 3022, 3094, 3202 and 0.64mm (.025") pins

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 500K MΩ min.

Mechanical

Mating Force: 199g max.

Unmating Force: 57g min.

Normal Force: 300g

Durability: 50 cycles Gold and 25 cycles Tin

Physical

Housing: White nylon, UL 94V-0

Contact: Phosphor Bronze

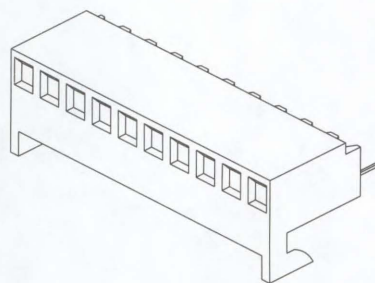
Plating: 1.00μ (40μ") Tin/Lead and
2.00μ (80μ") Copper min.

Operating Temperature: 0 to +75°C

molex® 2.50mm (.098") Pitch KK® PC Board Connector

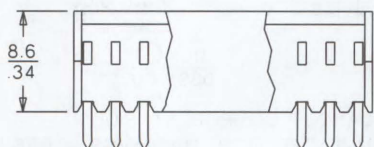
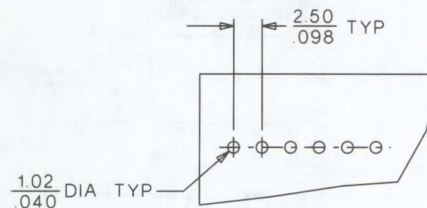
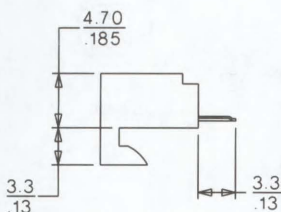
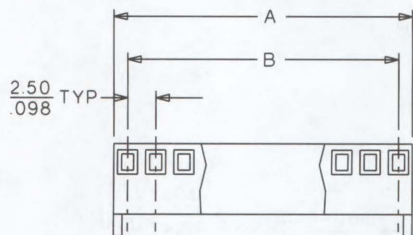
7534

Top Entry



2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



RECOMMENDED PCB LAYOUT

RECOMMENDED PCB THICKNESS: 1.58
.062

ORDERING INFORMATION AND DIMENSIONS

Circuits	Tin Order No.	Dimension	
		A	B
2	22-02-1025	4.94 (.194)	2.50 (.098)
3	22-02-1035	7.44 (.293)	5.00 (.197)
4	22-02-1045	9.94 (.392)	7.50 (.295)
5	22-02-1055	12.44 (.490)	10.00 (.394)
7	22-02-1075	17.44 (.687)	15.00 (.591)
8	22-02-1085	19.94 (.785)	17.50 (.689)
9	22-02-1095	22.44 (.884)	20.00 (.787)
10	22-02-1105	24.94 (.982)	22.50 (.886)
11	22-02-1115	27.44 (1.081)	25.00 (.984)

Circuits	Tin Order No.	Dimension	
		A	B
12	22-02-1125	29.94 (1.179)	27.50 (1.083)
13	22-02-1135	32.44 (1.278)	30.00 (1.181)
14	22-02-1145	34.94 (1.376)	32.50 (1.280)
15	22-02-1155	37.44 (1.475)	35.00 (1.378)
16	22-02-1165	39.94 (1.572)	37.50 (1.477)
17	22-02-1175	42.44 (1.672)	40.00 (1.575)
18	22-02-1185	44.94 (1.769)	42.50 (1.674)
19	22-02-1195	47.44 (1.860)	45.00 (1.772)
20	22-02-1205	49.94 (1.966)	47.50 (1.870)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Radial taping

Reference Information

Packaging: Radial taping
Mates With: 53699 and 53704
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V
Insulation Resistance: 1000 MΩ min.

Physical

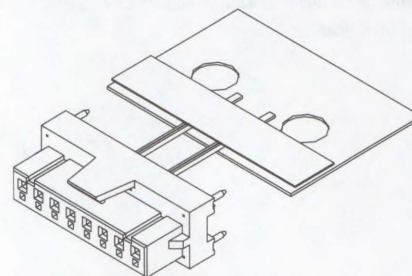
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -40 to +105°C



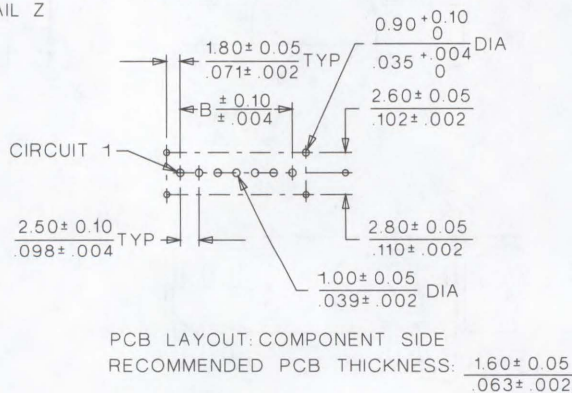
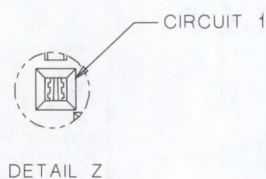
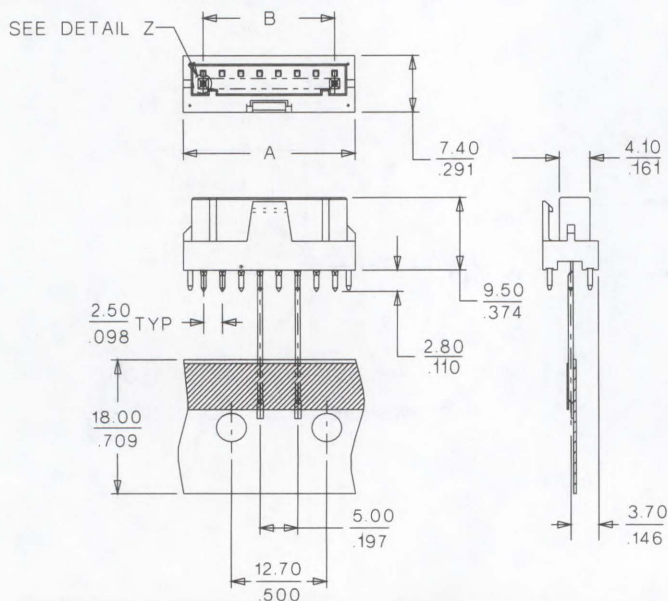
2.50mm (.098") Pitch Board-to-Board Receptacle

52945

Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
8	52945-0890	22.90 (.900)	17.50 (.680)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Positive lock

Reference Information

Packaging: Tray
Mates With: 52945
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 500V
Insulation Resistance: 1000 MΩ min.

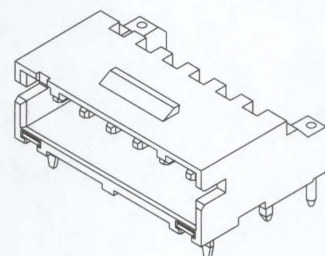
Physical

Housing: 6/6 nylon, UL 94V-0
Contact: Brass
Plating: Tin/Lead
Operating Temperature: -40 to +105°C

molex® 2.50mm (.098") Pitch Board-to-Board Header

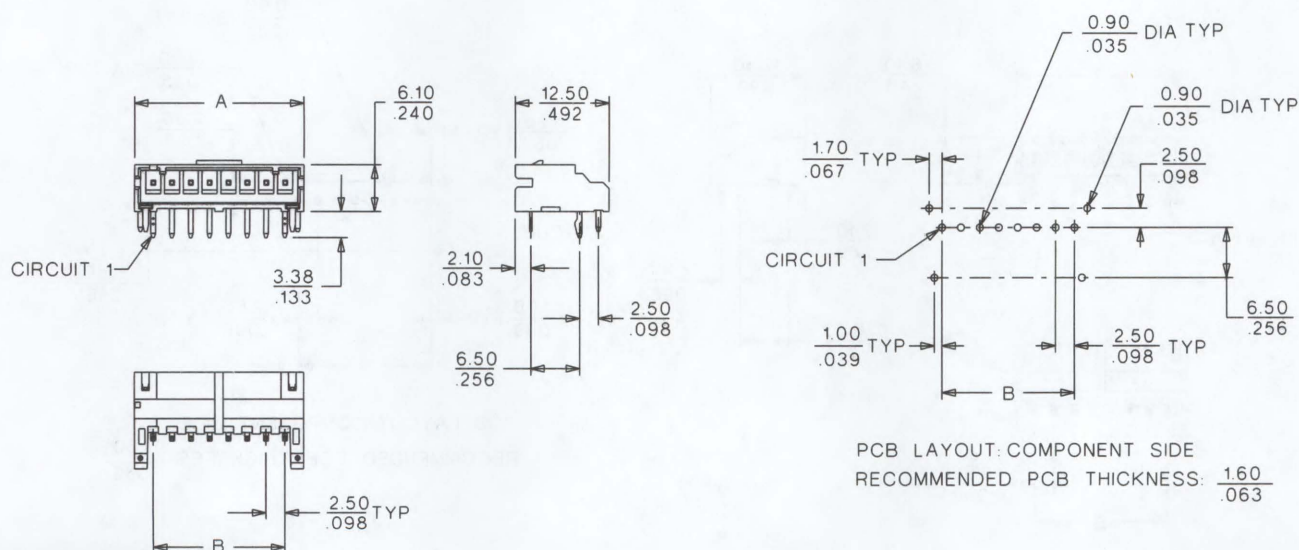
53699

Right Angle



B
2.00 to 2.50mm (.079 to .098") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

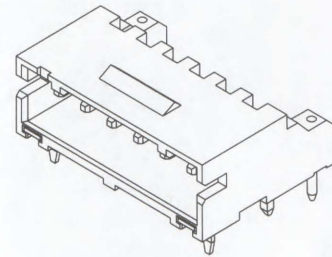
Circuits	Order No.	Dimension	
		A	B
8	53699-0812	22.90 (.902)	17.50 (.689)



2.50mm (.098") Pitch Board-to-Board Header

53704

Right Angle



FEATURES AND SPECIFICATIONS

Features and Benefits

- Friction lock

Reference Information

Packaging: Tray

Mates With: 52945

Designed In: Millimeters

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 500V

Insulation Resistance: 1000 MΩ min.

Physical

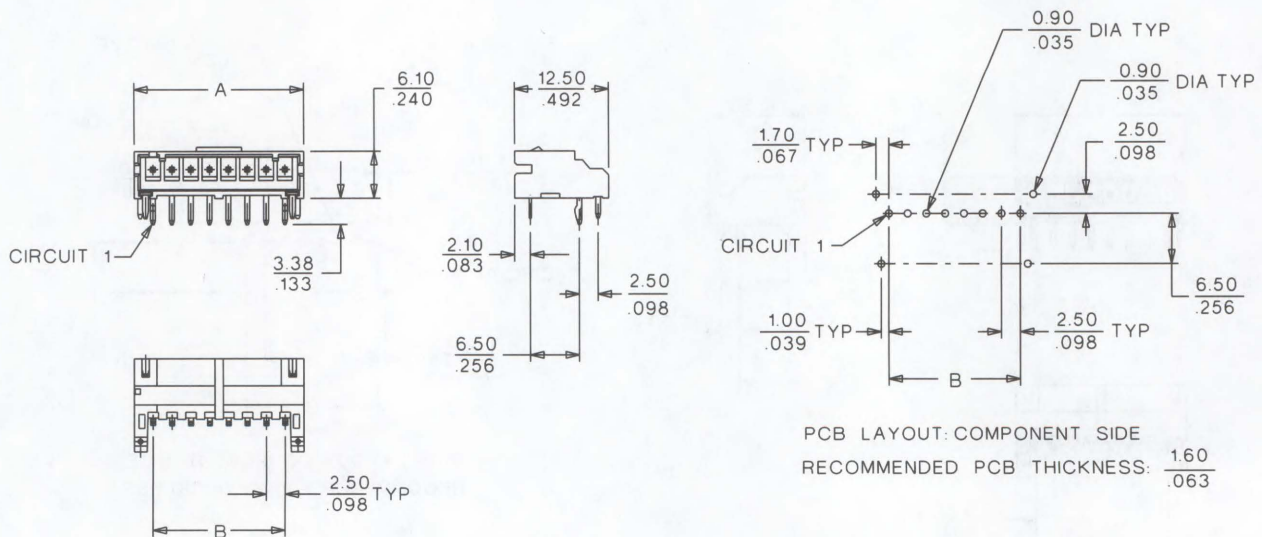
Housing: 6/6 nylon, UL 94V-0

Contact: Brass

Plating: Tin/Lead

Operating Temperature: -40 to +105°C

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
8	53704-0815	22.50 (.880)	17.50 (.680)

FEATURES AND SPECIFICATIONS

Features

- Terminates Milligrid 2.0MM dual row connectors
- Full cycle ratchet
- Provides easy termination of flat ribbon cable
- Adjustable for circuit sizes from 10 to 50
- Adjustable cable stop
- Designed to produce feed-to or feed-through harnesses
- For low volume, prototype and field repair

Specifications

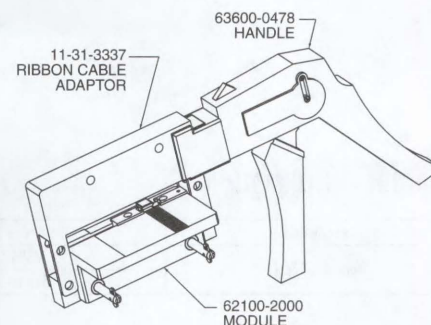
Rate: Approximately 150 terminations per hour, dependent on operator skill and application.

Wire: Accepts 1mm pitch, flat cable

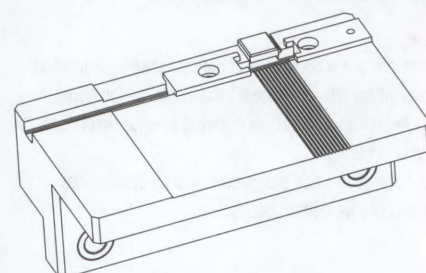


Application Tooling

Manual Hand Tool Handle for Milligrid 2.0



Manual Hand Tool Module for Milligrid 2.0



62100-2000 HAND TOOL MODULE

2.00 to 2.50mm (.079 to .098") Pitch

ORDERING INFORMATION

Description	Order No.	Used with Molex Connectors
Hand Tool Module	62100-2000	87568
Hand Tool Handle	63600-0478	87568
Ribbon Cable Power Adapter	11-31-3337	87568

If a complete tool is required, both of the parts above must be ordered.

FEATURES AND SPECIFICATIONS

Features

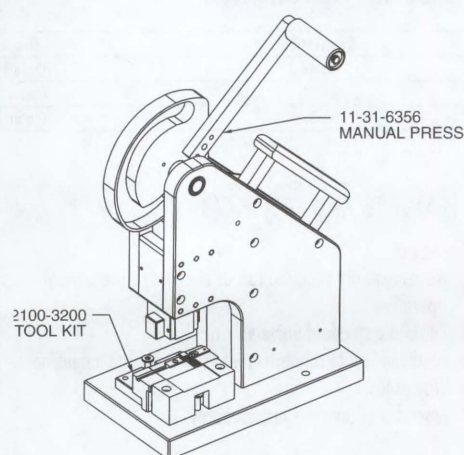
- Terminates Milligrid 2.0MM dual row connectors
- Full cycle ratchet
- Provides easy termination of flat ribbon cable
- Accommodates both left and right handed operators
- Designed to produce feed-to or feed-through harnesses
- For medium volume applications
- Tool kit used in standard press (11-31-6356)

Specifications

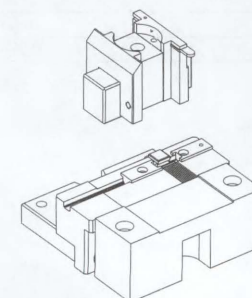
Rate: Approximately 250 terminations per hour, dependent on operator skill and application.

Wire: Accepts 1mm pitch, flat cable

Manual Standard Press



Tool Kit for Manual Standard Press for Milligrid 2.0



ORDERING INFORMATION

Description	Order No.	Used with Molex Connectors
Standard Manual Press	11-31-6356	87568
Tool Kit Only	62100-3200	87568

If a complete tool is required, both of the parts above must be ordered.

FEATURES

Features and Benefits

- Manually terminates discrete wire into Mi II IDT terminals
- Primarily for prototype work
- Tool complete with change parts for three connector styles

Manual IDT Hand Tool for Mi II



ORDERING INFORMATION

Description	Order No.	Product No.
Manual IDT Tool	57325-5000	52484, 52478, 52693
	57834-5000	54596

FEATURES AND SPECIFICATIONS

Features

- Pneumatic press coupled with die set for specific product designed for low to medium volume IDT terminations
- Nest holds up to 30 circuits allowing smaller circuit sizes to be run in multiples
- Best for ribbon cable and jacketed cable applications
- Die sets are field interchangeable

Specifications

Size: Width—390mm (15.3")
 Depth—435mm (17.1")
 Height—424mm (16.7")
 Weight—60kg (132.2 lb)
 Electrical: Voltage—110V AC, 50 or 60 Hz
 Current—1A at 110V AC
 Pneumatics: 4.4 BAR (71psi) at 10L per minute (.35 CFM)
 Rate: 2 Circuit—Approximately 150 assemblies per hour depending on operator skill
 15 Circuit—Approximately 200 assemblies per hour depending on operator skill

Semi-Automatic Pneumatic Bench Top Machine for Mi II



ORDERING INFORMATION

Description	Order No.	Product No.
Press	Contact Molex	
Die Set	Contact Molex	52691
Die Set	Contact Molex	52484, 52478, 52693

FEATURES AND SPECIFICATIONS

Features

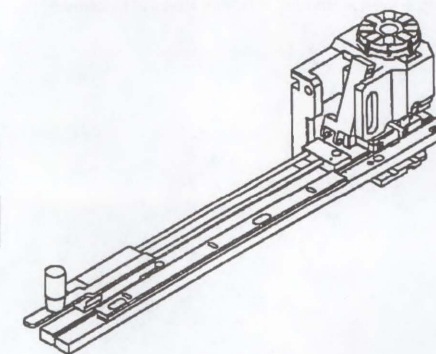
- No services are required (air or electricity), mechanical operation
- Fits into a standard universal press
- Hand loading of connectors into spring loaded magazine
- Wire guide
- Assembly of jumper harnesses only

Specifications

Size: Width—155mm
 Depth—110mm
 Height—90mm
 Weight—5kg

Preferred Version in Europe—Not available in the US

Semi-Automatic IDT Mini-Mac for 54148 and 52484 Series Connectors



ORDERING INFORMATION

Description	Order No.	Product No.
Mini-Mac for 2 to 32 circuits	69053-1003	54148, 52484

FEATURES AND SPECIFICATIONS

Features

- Semiautomatic machine for terminating discrete wires
- Interchangeable tooling for all connector styles listed
- Program features—Connector combination, multi-pitched feeding, void (empty) circuit, wire end detection, connector positioning to circuit, origin returning after completion of termination

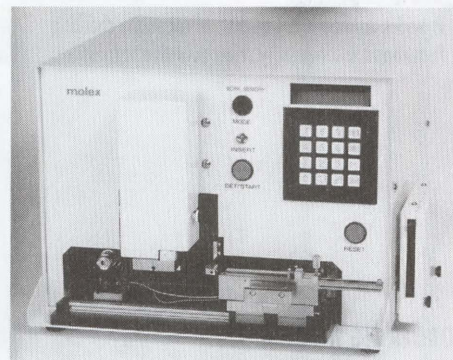
Specifications

Size: Width—390mm (15.3")
 Depth—390mm (15.4")
 Height—424mm (16.7")
 Weight: 60kg (132.2 lb)
 Electrical: Voltage—110V AC, 50 or 60 Hz
 Current—1A at 110V AC
 Rate: Approximately 2000 terminations per hour depending on operator skill

ORDERING INFORMATION

Description	Order No.	Product No.
Electrical Bench Top Terminator	Contact Molex	52478, 52484, 52691, 52693

Semi-Automatic Electrical Bench Top Machine for Mi II



B

2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features

- Designed for medium to high volume applications
- Operator load and unload
- Capable of producing complex harnesses

Specifications

Size (Machine): Width—1200mm (47.2")
 Depth—800mm (31.5")
 Height—1270mm (50")
 Weight (Machine): 200kg (440.8 lb)
 Size (Reel Stand): Width—1230mm (48.4")
 Depth—830mm (33.9")
 Height—1460mm (57.5")
 Weight (Reel Stand): 30kg (66 lb), without wire
 Electrical: Voltage—110V AC, 50 or 60 Hz
 Current—10A at 110V AC
 Pneumatics: 4.4 BAR (71psi) at 100L per minute (3.5 CFM)
 Capacity: 10 to 25 million+ terminations per year (single shift)
 Rate: 10 to 15 seconds per cycle depending on harness length and complexity

Semi-Automatic Harness Machine for Mi II



ORDERING INFORMATION

Description	Order No.	Product No.
Semiautomatic Harness Machine	Contact Molex	52484, 52691, 52693

FEATURES AND SPECIFICATIONS

Features

- Fully automatic machine
- Automatically measures discrete wire to specified length and terminates both ends of wire
- Provides automatic IDT depth and continuity checking
- Automatically rejects defective harness

Specifications

Size (Machine): Width—3505mm (11'6")
 Depth—2800mm (9'2")
 Height—2000mm (6'6.7")
 Weight (Machine): 2945kg (6940 lb)
 Size (Reel Stand): Width—2100mm (6'11")
 Depth—1100mm (43.3")
 Height—1700mm (66.9")
 Weight (Reel Stand): 500kg (1102 lb)
 Electrical: Voltage—220V AC, 50 or 60 Hz, 3-Phase
 Current—20A at 220V AC
 Pneumatics: 4.4 BAR (71psi) at 495L per minute (17.5 CFM)
 Capacity: 50 to 100 million terminations per year (single shift)
 Rate: 4 to 9 seconds per cycle depending on harness length

XELOM Automatic Jumper Harness Machine for Mi II



ORDERING INFORMATION

Description	Order No.	Product No.
XELOM	Contact Molex	52484, 52691, 52693

B
2.00 to 2.50mm (.079 to .098") Pitch

FEATURES AND SPECIFICATIONS

Features

- Similar to XELOM, but includes added features
- Feeds and measures each wire individually to a specific pre-programmed length
- Equipped with an automated free standing combination wire feeding mechanism
- Provides automatic IDT depth and continuity checking
- Function to automatically reject defective harness

Specifications

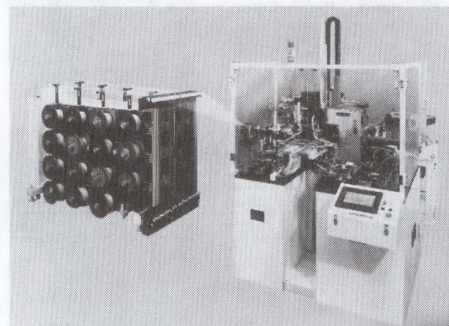
Size (Machine): Width—1260mm (50.8")
Depth—1150mm (45.3")
Height—1500mm (59.1")
Weight (Machine): 1500kg (3306 lb)
Size (Reel Stand): Width—1230mm (48.4")
Depth—830mm (32.7")
Height—1460mm (57.5")
Weight (Reel Stand): 800kg (1760 lb)
Electrical:
Voltage—220V AC, 50 or 60Hz, 3-Phase
Current—50A at 220V AC
Pneumatics: 4.4 BAR (71psi) at 500L per minute (17.7 CFM)
Capacity: 50 to 100 million terminations per year (single shift)
Rate: 5 to 7 seconds per cycle depending on harness length and complexity

ORDERING INFORMATION

Description	Order No.	Product No.
XELOM PLUS	Contact Molex	52484, 52691, 52693

molex® Application Tooling

Fully Automated XELOM Plus Machine for Mi II



FEATURES

- Full cycle ratchet to assure complete termination
- For prototype and repair
- Automatic indexing to next position after insertion of discrete wire

molex® Application Tooling

Manual IDT Discrete Wire Hand Tool for Spox™ and User Friendly 2.50mm Pitch Connectors

B

ORDERING INFORMATION

Description	Order No.	Use with Molex Connector
Pistol	63600-0478	
Module for 2.50mm SPOX	69008-0290	42219, 42254
Module for 2.50mm "User Friendly"	69008-0290	90650, 90652



Pistol



Module

FEATURES

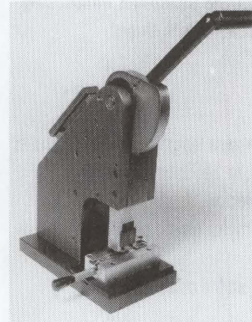
- Full cycle ratchet to assure complete termination
- For low-volume requirements
- Manual index to next position after termination

Manual IDT Discrete Wire Standard Press for Spox™ and User Friendly 2.50mm Pitch Connectors

2.00 to 2.50mm (.079 to .098") Pitch

ORDERING INFORMATION

Description	Order No.		Use with Molex Connector
	Press Assembly	Tooling Only	
Manual Press for 2.50mm SPOX	11-20-1278	11-39-0001	42219, 42254
Manual Press for 2.50mm "User Friendly"	11-21-9963	11-21-9998	90650, 90652



FEATURES

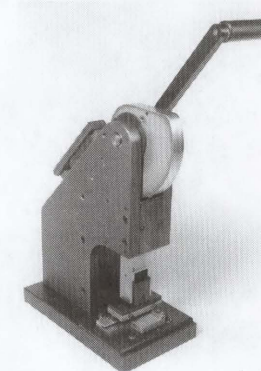
- Full cycle ratchet to assure complete termination
- For low- to mid-volume needs
- Mass termination of prepared cable-to-connector

Manual IDT Ribbon Cable Standard Press for Spox™ and User Friendly 2.50mm Pitch Connectors

ORDERING INFORMATION

Description	Order No.		User with Molex Connector
	Press Assembly	Tooling Only	
Manual Press for 2.50mm SPOX	11-21-9757	11-32-1956	42219, 42254
Manual Press for 2.50mm "User Friendly"	11-20-1277	11-39-0002	90650, 90652

* See Application Tooling section for additional information on these tools



FEATURES AND SPECIFICATIONS

Features

- Assembles either discrete wire or cable
- Connector packaged in "Ammo-Pak" and linked together by terminal carrier strips
- Automatic connector loading
- Automatic carrier break off
- Programmable void capability
- Foot-pedal operated
- Tooled for 2 through 15 circuits
- Discrete wire and cable tooling come with the machine
- "CE" certified

Specifications

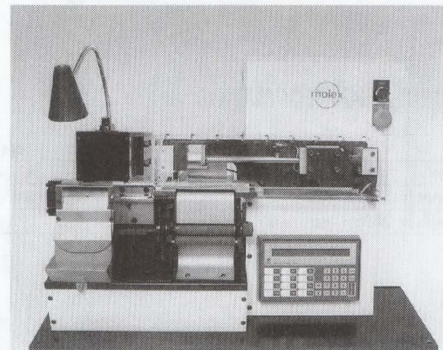
Size: Width—760mm (30")
 Depth—480mm (19")
 Height—480mm (19")
 Weight: 70kg (150 lb)
 Pneumatics: Pressure—5 BAR (80psig)
 Consumption—5.6L per minute (0.2 CFM)
 Electrical: Voltage—120V, 60 Hz or 220V, 50 Hz
 Current—2A at 120V or 1A at 220V
 Rate: Up to 1200 terminations per hour (discrete) and 350 assemblies per hour (cable), dependent on operator speed and wire length

ORDERING INFORMATION

Description	Order No.	Use with Molex Connector
Semi-Automatic Terminator for Discrete Wire and Ribbon Cable	62300-0700	42219, 42254
Semi-Automatic Terminator for Discrete Wire and Ribbon Cable	62300-0500	90650, 90652

molex® Application Tooling

Semi-Automatic IDT Machine for Spox™ and User Friendly 2.50mm Pitch Connector



FEATURES AND SPECIFICATIONS

Features

- Dereel system for discrete wire or cable available
- Double- or single-ended harness capabilities without strip
- Single-ended harness capabilities with strip (38.00mm/1.5" max.)
- Full strip for discrete wire
- Strip and retain for cable
- Discrete wire with variable-wire length capability (Harness length of 152mm/6" min. to 2400mm/95" max.)
- Missing wire and splice detector
- Welded-film unloader for mylar ammo pack
- Carrier strip break off
- Continuity testing (double-ended assemblies)
- Hot stamp marking
- Reject station to segregate rejected assemblies
- "CE" certified

Specifications

Pneumatics: Pressure—5 BAR (80psig)
 Consumption—142L per minute (5 CFM)
 Electrical: Voltage—120V AC, 60 Hz or 220V AC, 50 Hz
 Current—30A at 120V or 15A at 220V
 Rate: 300 cycles per hour average, dependent on harness length, up to 60 terminations per cycle, dependent on circuit size

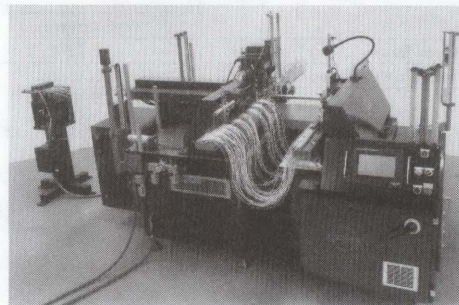
ORDERING INFORMATION

Description	Order No.	Use with Molex Connector
Fully Automatic Mass Terminator for Discrete Wire and Ribbon Cable	Contact Molex	42219, 42254
Fully Automatic Mass Terminator for Discrete Wire and Ribbon Cable	Contact Molex	90650, 90652

* See Application Tooling section for additional information on these tools

† Due to the special nature of these machines, contact Molex for information related to specific harness requirements

Fully Automatic IDT Harness Assembly Machine for Spox™ and User Friendly 2.50mm Pitch Connectors†

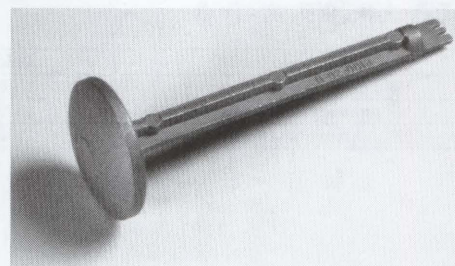


FEATURES

- For prototype and repair

molex® Application Tooling

Manual IDT Discrete Wire "T" Handle Hand Tool for PCB Connectors



ORDERING INFORMATION

Description	Order No.	Connector
"T" Tool for 2.50mm (.098") and 2.54mm (.100") pitch connectors	11-02-0016	7720, 7720S, 7795, 40555, 8160
"T" Tool for 3.96mm (.156"), 5.00mm (.197") and 5.08mm (.200") pitch connectors	11-02-0015	6952, 7674, 7675

FEATURES

- For prototype and repair
- Auto indexing to next position after insertion of discrete wire

Manual IDT Discrete Wire Hand Tool for PCB Connectors



ORDERING INFORMATION

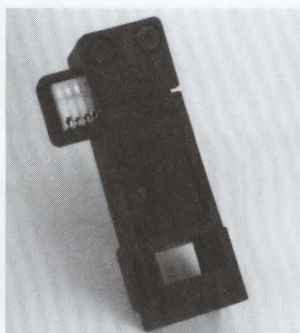
Description	Order No.	Connector
Pistol	63800-0478	
Module for 5.08mm (.200") pitch connectors, feed-to only	69008-0270	6952
Module for 3.96mm (.156") pitch connectors, feed-to only	11-21-5196	7674, 7675, 8160
Module for 3.96mm (.156") pitch connectors, feed-to or feed-through	62100-0400	7674, 7675
Module for 2.50mm (.098") and 2.54mm (.100") pitch connectors, feed-to only	11-21-5197	7720, 7720S, 7795S, 40555

FEATURES AND SPECIFICATIONS

- For prototype and repair
- Automatically indexes to the next position after previous wire termination

Preferred Version in Europe—Not available in US

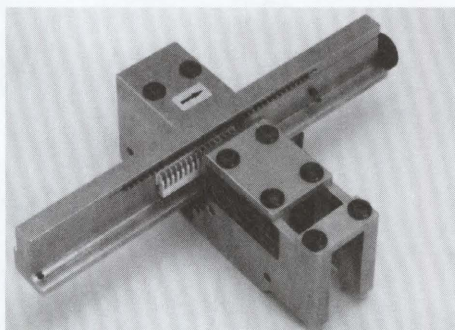
Manual IDT Discrete Wire Hand Tool for PCB Connectors



ORDERING INFORMATION

Description	Order No.	Type	For Connector Series
Pistol	690058-0949		Required for all modules and all connectors

Description	Order No.	Type	For Connector Series
Module for 2.50mm (.098") and 2.54mm (.100") pitch connectors	69008-0225	B	7720, 7720S, 7795S, 40555
"User Friendly"	69008-0290	C	90650, 90652
Module for 3.96mm (.156") pitch connector	69008-0240	B	7674, 7675, 7720, 7720S, 7795S, 40555
Module for 5.00mm (.197") pitch connector	69008-0270	B	6952



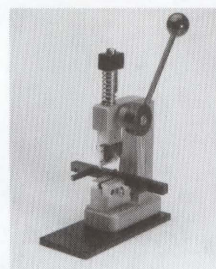
2.00 to 2.50mm (.079 to .098") Pitch

B

FEATURES

- For low-volume requirements
- Feed-through or feed-to assembly

molex® Manual Ribbon Cable Press for PCB Connectors



B

ORDERING INFORMATION

Description	Order No.	Connector
.156" pitch manual press terminator	11-20-0314	7674, 7675
.100" pitch manual press terminator	11-20-0179	7720, 7720S
.098" pitch manual press terminator	11-20-0436	8160

FEATURES AND SPECIFICATIONS

Features

- Terminates pre-notched cable to pre-assembled connectors
- Bench mounted and operator controlled
- Feed-through and feed-to capabilities
- Connector magazine for increased output

Specifications

Size: Width—152mm (6")
 Depth—305mm (12")
 Weight: 13.5kg (30 lb)
 Pneumatics: Pressure—5 BAR (80-100psig) at 5.6L per minute (0.2 CFM)
 Rate: Up to 350 assemblies per hour dependent on operator speed and application

Application Tooling

Semi-Automatic Ribbon Cable Terminator for PCB Connectors

ORDERING INFORMATION

Description	Order No.	Connector
.156" pitch cable terminator	11-20-0418	7674, 7675
.100" pitch cable terminator	11-20-0412	7720
.100" pitch cable terminator for connectors with backwalls	11-20-0771	7720
Terminator for 7795 connector	11-20-0435	7795S
Terminator for 8160 connector	11-20-0498	8160

